AC 4473

County Borough of Sunderland.

Annual Report

ON THE

Health and Sanitary Condition of Sunderland.

FOR THE YEAR 1924.

HENRY RENNEY, D.Hy., D.P.H., M.D., B.S.,

Fellow of the Society of Medical Officers of Health,
Late President of the Northern Branch of the Society of Medical Officers of Health.
Member of the Royal Sanitary Institute,
Medical Superintendent of the Borough Sanatorium,
and of Grindon Sanatorium,
Medical Officer of Health.

SUNDERLAND
POST COMPANY LIMITED, WEST WEAR STREET.
1925.

County Borough of Sunderland.

Annual Report

ON THE

Health and Sanitary Condition of Sunderland.

FOR THE YEAR 1924.

HENRY RENNEY, D.Hy., D.P.H., M.D., B.S.,

Fellow of the Society of Medical Officers of Health,
Late President of the Northern Branch of the Society of Medical Officers of Health.
Member of the Royal Sanitary Institute,
Medical Superintendent of the Borough Sanatorium,
and of Grindon Sanatorium,
Medical Officer of Health.

SUNDERLAND
POST COMPANY LIMITED, WEST WEAR STREET.
1925.

COUNTY BOROUGH OF SUNDERLAND.

HEALTH COMMITTEE.

CHAIRMAN:

COUNCILLOR I. G. MODLIN, O.B.E., M.D., B.S.

VICE-CHAIRMAN:

COUNCILLOR G. W. BAIN, J.P.

ALDERMAN R. GORDON BELL, M.D., J.P.
,, J. R. CUTTER.
,, J. HARRISON, J.P.
,, G. NEW, J.P.
,, J. TURNBULL, J.P.
,, W. WALKER, J.P.
COUNCILLOR R. H. BELL.
,, W. D. CARR.
,, G. CHARLTON.
,, A. V. CLEREY.

COUNCILLOR R. C. F. CROW.
,, T. DREVER.
,, G. S. LAWSON.
,, W. Y. LOGAN.
,, H. MITCHELL.
,, J. S. PICKERING.
,, W. RAINE, M.P.
,, J. M. SHAW, M.B., B.S.
,, M. WALTON.
,, T. C. WILSON.

Meetings—Monthly, on the Thursday in the second week preceding that in which the Council meets, at 7-30 p.m.

Accounts at 7-20 p.m.

Officials of the Health Department.

MEDICAL OFFICER OF HEALTH AND MEDICAL SUPERINTENDENT OF THE BOROUGH AND GRINDON SANATORIA:

HENRY RENNEY, D.Hy., D.P.H., M.D., M.B., B.S. (Durh.).

ASST. MEDICAL OFFICER OF HEALTH:

EUSTACE THORP, O.B.E., L.R.C.P., L.R.C.S., D.P.H.

TUBERCULOSIS OFFICER:

J. DICKINSON LEIGH, M.D., M.B., F.R.C.S. (Edin.), D.P.H.

PUBLIC ANALYST:

JOHN T. DUNN, D.Sc., F.I.C.

TREATMENT OFFICER, VENEREAL DISEASES CLINIC:

NOEL F. ROWSTRON, M.D., M.R.C.S., L.R.C.P., Lond.

BACTERIOLOGIST:

HENRY ANSTEY COOKSON, M.B., Ch.B. (Ed.), F.R.C.S. (Edin.), D.P.H. (Camb.).

MATRON OF THE BOROUGH AND GRINDON SANATORIA:

Miss F. HARVEY.

INSPECTOR OF NUISANCES:

JOHN PENNOCK (Cert. San. Inst.)

DEPUTY INSPECTOR OF NUISANCES AND INSPECTOR UNDER THE SHOPS' ACT:

JAMES S. WATSON (Cert. San. Inst.)

MEAT AND FOODS INSPECTOR:

A. D. HOWARD (Cert. San. Inst.)

MILK AND SAMPLING INSPECTOR:

ROGER LEE (Cert. San. Inst.)

ASSISTANT INSPECTORS OF NUISANCES:

CHAS. BROUGHTON	(Cert. San. Inst.)	FRED DYER	(Cert. San. Inst.)
FRED OATES,	,,	JOSEPH D. WARD,	,,
GEORGE REED,	,,	N. A. MARLEE,	,,

Officials of the Health Department.—*Contd.*

CLERK:

JAMES W. SOLLEY.

ASSISTANT CLERKS:

JAMES W. H. MILLER.

NICHOL L. CLASPER.

PERCY D. WARD.

LESLIE OATES.

Miss D. HARRISON (Maternity and Child Welfare).

DISINFECTOR:

THOS. S. BLAND.

INSPECTOR OF DRAINS AND SANITARY FITTINGS FOR NEW HOUSES:

FRANK E. RAIN (Cert. San. Inst.)

HOUSING SUPERINTENDENT, HARRISON BUILDINGS, AND ASSISTANT SANITARY INSPECTOR:

R. T. BLAYLOCK (Cert. San. Inst.)

SUPERINTENDENT OF HEALTH VISITORS AND MIDWIVES:

*Miss M. E. BARBER (Cert. San. Inst.).

ASSISTANT HEALTH VISITORS:

*Miss N. RAINE (Cert. San. Inst.).

*Miss F. REYNOLDS.

Miss A. WALKER.

*Miss J. ALLAN.

*Miss J. B. RIDDELL.

*Miss V. J. PARKER.

*Miss K. M. NICHOLAS (Cert. San. Inst.).

*Miss M. L. BURN.

*Mrs. D. THOMPSON.

MUNICIPAL MIDWIFE:

*Mrs. E. H. WRIGHT.

*Certified Midwives.

HEALTH OFFICE,
27, FAWCETT STREET,
SUNDERLAND.

TO THE CHAIRMAN, VICE-CHAIRMAN AND MEMBERS
OF THE HEALTH COMMITTEE.

GENTLEMEN,

I have the honour to submit to you my 21st Annual Report on the Health and Sanitary Condition of the Borough, and on the work of the Health Department for the year 1924. The increase in the death-rate (1·2 per 1,000 more than in 1923) was principally due to Influenza, Respiratory diseases and Diarrhœa.

I have to acknowledge the assistance and co-operation of the Chairman, Vice-Chairman, and Members of the Health Committee; also the Assist. Medical Officer of Health, Dr. Thorp, Chief Inspector Pennock, and the staff of my department, and of my colleagues in the other departments of the Corporation, to whom I tender my sincere thanks.

I am, Gentlemen,

Your obedient Servant,

HENRY RENNEY,

Medical Officer of Health.

June, 1925.

STATISTICAL SUMMARY.

Area of the Borough	3,357 acres.
Population (Census, 1921)	161,100
„ (Estimated, 1924)	165,100
Births registered in 1924	4,285
Birth-rate per 1,000 Inhabitants	25·9
Deaths registered in 1924	2,486
Death-rate per 1,000 Inhabitants	15·0
Number of Deaths of Infants (under the age of one year)	433
Infantile Mortality per 1,000 Births	101
Death-rate from the seven principal zymotic diseases: Smallpox, Whooping Cough, Measles, Diphtheria, Diarrhœa, Scarlet Fever, and "Fever" (Typhoid, Enteric, and Typhus), per 1,000 of the population	1·16
Death-rate from Diarrhœa and Enteritis of children under two years, per 1,000 births	26·1
Death-rate from Phthisis per 1,000 of the population	1·02
Death-rate from all forms of Tuberculosis per 1,000 of the population	1·42

INDEX.

	Page.
Abatement of Nuisances	54, 60
Acreage of the Borough	48
Alterations and Improvements	55
Analysis of Food and Drugs	58, 78-80
Appendix	48-53
Ante-Natal Work	14, 17
Assistant Medical Officer of Health's Report	13-14
Bacteriological Examinations	8-11
Births and Birth-Rate	2
Birth-Rate, compared with other towns	2
Births—Illegitimate	2, 48
Births in Wards and Sub-Districts	4-5
Births, Notification of	11
Borough and Grindon Sanatoria Report	33-35
Bronchitis	13
Chart showing the General Death-Rate in Sunderland from 1870 to 1924 per 1,000 of the population	23
Chart showing Infant Mortality per 1,000 Births from 1885 to 1924	25
Common Lodging Houses	56
Conveniences—Sanitary	52, 76
Dairies, Cow Sheds and Milkshops	56, 66
Deaths and Death-Rates	3-5, 23-24, 42-48
Death-Rates in Wards	4-5, 28
Death-Rate compared with other towns	3
Deaths from Infectious Diseases	8

PAGE.

Diarrhœa and Enteritis 15-16
Diphtheria 7
,, Examination of Swabs 11
Disinfecting Work 81
Drain Testing (New Houses) 12
Drains Tested by Sanitary Inspectors 54, 61

Ear Diseases 13-14
Enteric Fever—Examination of Blood 11

Factories, Workshops and Workplaces.....38-40, 57, 70-76
Food and Provision Inspection 62
Food Condemned and Destroyed 63-64

Harrison Buildings, Superintendent's Report 12-13
Health Committee ..... ii.
Health Visitor's Report 14-22
Hospital, the Isolation and Grindon 33-35
Houses—Number of Inhabited (1921) 48
Houses—Number Erected during the year 52
Housing Acts, 1890 to 1919 .....52-53, 55-56

Illegitimate Births 2, 48
,, Deaths 48
Infantile Mortality 25-27, 47
Infant Mortality in Wards..... 4-5, 28
Infantile Mortality compared with other towns 27
Infant Consultations—Comments by Dr. Thorp 13-14
Infant Welfare Centres 16, 21
Infectious Diseases 6, 8, 49
Inspector of Nuisances, Report of the 54

Magisterial Proceedings 77
Maternity Home—Annual Statistics 29
Maternity and Child Welfare—Dr. Thorp's Report 13-14
Do. Superintendent Health Visitor's Report 14-22

PAGE.
Meat and Food Inspection 56, 62
Meteorological Observations 41
Midwives, Supervision of 17-18
Midwife, Municipal 17-18
Milk Analysis 78
Milk—Examination of, for Presence of Dirt..... 67
Milk Samples, Bacteriological Examination of 9-10
Milk and Dairies (Amendment) Act, 1922 69
Milk and Cream Regulations 58, 68
Milk, &c., Grants 15

New Houses, Drains Tested 12
Notices Served for the Abatement of Nuisances 60
Notifications of Infectious Diseases 6, 49
Notification of Births 11
Nourishment to Necessitous Mothers and Children 15

Officials—Health Department ..... iii., iv.
Offensive Trades 57, 65
Ophthalmia Neonatorum 18, 50
Outworkers 39
Overcrowding 55

Population 1
Provisions, &c.—Inspection of 62
Puerperal Fever 18

Rainfall 41
Records of Sending for Medical Help 22
Re-Visits to Infants 20
Register of Work Performed 61
Rickets 14

Sale of Food and Drugs Acts 78-80
Sanitary Administration—List of Adoptive Acts, &c. 51
Sanitary Conveniences 52, 76
Scarlet Fever 7
Shops Acts 57, 69, 71-72

PAGE.

Small-pox and Vaccination 36-37
Sputum—Bacteriological Examination of 11
Statistical Summary ..... vi.
Still Births 2, 16

Tuberculosis—Notifications and Deaths 49
Tuberculous Milk 9-10, 67

Unsound Food, Seizures of 63-64

Vaccination 36-37
Venereal Diseases—Dr. Rowstron's Report 30-32
Visits and Re-Visits made by Health Visitors 20
,, by Sanitary Inspectors 59

Wards—Population Census, 1921 1
,, Death-Rates, &c.—All Ages 4-5
,, ,, ,, Under 1 year 28
Water, Bacteriological Examination of..... 8-9

Zymotic Diseases, Deaths from 6

County Borough of Sunderland.

HEALTH DEPARTMENT.

ANNUAL REPORT

FOR THE YEAR 1924.

POPULATION.

The population estimated to the middle of 1924 was 165,100.

The Census population of 1921 was 161,100, and the Census populations of the various Wards were as follows:—

Bishopwearmouth	10,502	Monkwearmouth-Shore	11,581
Bridge	12,849	Pallion	10,703
Central	8,662	Park	10,186
Colliery	8,080	Roker	10,403
Deptford	10,451	St. Michael's	7,860
East	9,376	Sunderland	9,864
Hendon	9,346	Thornhill	13,319
Monkwearmouth	6,280	West	11,638

The estimated population for 1924 for each Ward is given in Table E, pages 4 & 5.

BIRTHS.

Table A shows the number of births of males and females, together with the birth-rates for the ten years, 1915 to 1924.

TABLE A.

Year.	Births Registered.			Birth-rate
	Males.	Females.	Total.	
1915	2288	2184	4472	30·2
1916	2113	2011	4124	26·1
1917	1771	1689	3460	21·9
1918	1952	1821	3773	23·3
1919	2150	2162	4312	27·7
1920	2784	2630	5414	34·9
1921	2567	2391	4958	30·7
1922	2500	2162	4662	28·6
1923	2021	2011	4032	24·6
1924	2155	2130	4285	25·9

The birth-rate for 1924 is 1·5 below the average of the last 10 years.

The following Table gives the birth-rate per 1,000 of the population for England and Wales and several towns for the year 1924 (Registrar-General's provisional figures):—

TABLE B.

England and Wales	18·8
105 Great Towns	19·4
157 Smaller Towns	18·9
London	18·7
South Shields	24·7
Gateshead	22·9
Newcastle	24·3
Tynemouth	23·3
Darlington	20·9
Middlesbrough	26·4
SUNDERLAND	25·9

Illegitimate Births.—Of the 4,285 births registered, 141 or 3.4 per cent. were illegitimate.

Still Births.—The number of still births during the year was 188.

DEATHS.

The deaths registered during the year, including 119 which occurred outside the Borough, numbered 2,486 (1,335 males and 1,151 females). The death-rate per 1,000 is therefore 15·0, the second lowest on record. The average death-rate for the last ten years = 17.4.

The death-rates in the quarters during 1924 were as follows:—

1st quarter	Deaths,	805	Death-rates	19·5	per 1,000.
2nd do.	do.	538	do.	13·0	do.
3rd do.	do.	539	do.	13·0	do.
4th do.	do.	604	do.	14·6	do.

TABLE C.

Death-rates per 1,000 of the Population (1873 to 1924):—

Year.	Rate per 1,000.	Year.	Rate per 1,000.	Year.	Rate per 1,000.
1873	22·7	1891	24·8	1909	18·3
1874	23·6	1892	20·8	1910	16·9
1875	22·4	1893	22·4	1911	17·8
1876	20·8	1894	20·7	1912	15·9
1877	22·5	1895	21·7	1913	18·1
1878	25·5	1896	19·6	1914	17·0
1879	21·8	1897	19·7	1915	19·8
1880	24·4	1898	22·8	1916	18·4
1881	20·9	1899	21·7	1917	18·2
1882	26·4	1900	21·7	1918	24·0*
1883	24·7	1901	21·3	1919	17·9
1884	23·3	1902	19·8	1920	16·0
1885	24·3	1903	20·1	1921	15·3
1886	20·0	1904	19·8	1922	15·7
1887	20·3	1905	19·2	1923	13·8
1888	18·7	1906	19·2	1924	15·0
1889	23·9	1907	19·9		
1890	23·7	1908	18·3		

*Influenza Epidemic.

TABLE D.

Death-rate per 1,000 of the population for England and Wales and several towns for the year 1924:—

(Registrar-General's provisional figures.)

England and Wales	12·2
105 Great Towns	12·3
157 Smaller Towns	11·2
London	12·1
South Shields	14·1
Gateshead	13·8
Newcastle	13·1
Tynemouth	13·3
Darlington	12·5
Middlesbrough	16·6
SUNDERLAND	15·0

TABLE E.—The following Table shows the Death-rates per 1,000 DISEASES, also Birth-rates and Infantile Mortality

	Bishopwearmouth Ward.	Bridge Ward.	Central Ward.	Colliery Ward.	Deptford Ward.	East Ward.
Population (est. middle 1924).....	10836	13103	8826	8338	10667	9632
Births.....	263	367	310	224	278	358
Birth-Rate.....	24·27	28·00	35·12	26·87	26·06	37·17
Deaths—All Causes	121	247	180	114	165	181
Death-Rate.....	13·93	18·85	20·39	13·67	15·47	18·79
Deaths under 1 year.....	24	57	26	30	32	47
Infantile Mortality.....	91·2	155·3	83·9	133·9	115·1	131·3
Death-rate per 1000 from:—						
Influenza.....	0·55	0·92	0·90	0·48	1·03	1·14
Measles.....	0·09	0·07	0·11	0·00	0·19	0·52
Scarlet Fever	0·00	0·00	0·00	0·00	0·00	0·00
Whooping Cough.....	0·09	0·30	0·11	0·24	0·19	0·00
Diphtheria.....	0·09	0·15	0·00	0·00	0·00	0·10
Enteric Fever.....	0·00	0·00	0·00	0·00	0·00	0·00
Cancer.....	0·64	1·68	1·81	1·20	1·68	0·31
Heart Diseases..... ...	2·03	1·83	2·04	1·32	1·12	2·39
Bronchitis.....	1·66	2·59	3·17	1·92	2·15	3·22
Pneumonia.....	1·47	1·22	2·26	1·08	1·50	1·97
Nervous Diseases.....	1·20	1·14	2·04	1·32	0·65	1·35
Phthisis Pulmonalis..	0·64	0·92	1·81	0·84	1·21	1·14
Other forms of T.B.....	0·09	0·69	0·90	0·24	0·28	0·21
Premature Birth.....	0·83	0·61	0·34	0·84	0·75	1·35
Diarrhœa & Enteritis	0·55	1·60	1·13	0·72	0·75	1·25
Debility at Birth and Atrophy and Marasmus	0·28	0·30	0·45	0·48	0·00	0·41
Nephritis & Bright's Disease...	0·09	0·69	0·23	0·60	0·19	0·52
Diseases of Digestive System...	0·55	1·22	0·34	0·24	0·94	0·31
Old Age.....	1·20	0·53	0·34	0·36	0·56	0·52
Other Causes.....	1·94	2·36	2·37	1·80	2·25	2·08

of the population from ALL CAUSES and from the PRINCIPAL in the several Wards of the Borough, for the year 1924.

Hendon Ward.	Monkwearmouth Ward.	Monkwearmouth Shore Ward.	Pallion Ward.	Park Ward.	Roker Ward.	St. Michael's Ward.	Sunderland Ward.	Thornhill Ward.	West Ward.	Whole Borough.
9578	6052	12306	11152	10507	10596	7980	10091	13628	11808	165100
249	222	342	281	261	169	151	358	178	244	4255
26·00	36·68	27·79	25·19	24·84	15·95	18·92	35·47	13·06	20·66	25·77
119	121	152	142	153	117	133	174	175	162	2486
12·42	20·0	12·35	12·72	14·56	11·04	10·66	17·24	12·76	13·72	15·06
19	23	35	28	17	15	17	29	11	23	433
76·3	103·6	102·3	99·6	65·1	88·7	112·6	81·0	61·8	94·3	101·7
0·73	0·49	0·32	0·54	0·95	0·47	0·63	0·79	0·59	0·85	0·72
0·52	0·00	0·00	0·00	0·00	0·00	0·12	0·40	0·00	0·08	0·13
0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00
0·00	0·00	0·00	0·09	0·00	0·09	0·25	0·10	0·00	0·00	0·08
0·10	0·16	0·08	0·09	0·00	0·00	0·00	0·00	0·00	0·00	0·05
0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·07	0·00	0·01
1·36	0·82	0·49	0·72	0·95	1·04	1·25	0·99	1·17	0·76	1·06
1·25	2·97	1·95	1·97	2·28	2·36	2·63	1·68	2·79	1·86	2·01
1·77	2·15	1·38	1·88	1·71	1·22	1·13	2·77	1·17	1·95	1·97
0·94	1·98	1·05	1·00	1·52	0·85	1·25	1·78	0·81	1·27	1·33
0·94	0·99	1·13	1·00	1·52	1·51	2·00	1·68	1·17	1·69	1·32
1·15	1·82	1·06	0·72	1·24	0·56	0·88	1·58	0·44	0·93	1·02
0·21	0·83	0·41	0·36	0·28	0·47	0·75	0·69	0·29	0·08	0·40
0·00	0·66	0·57	0·54	0·00	0·00	0·50	0·20	0·22	0·59	0·49
0·21	1·16	0·57	0·54	0·38	0·38	0·78	1·49	0·37	0·51	0·76
0·52	0·33	0·97	0·36	0·09	0·18	0·12	0·49	0·29	0·17	0·35
0·00	0·99	0·16	0·45	0·09	0·27	0·37	0·49	0·5	0·25	0·36
0·42	0·83	0·32	0·36	0·66	0·27	0·75	0·10	0·37	0·25	0·50
0·73	1·16	0·57	0·54	0·95	0·27	1·00	0·99	0·73	0·85	0·70
1·57	2·64	1·30	1·61	1·71	1·13	2·13	0·99	1·84	1·61	1·80

TABLE F.

INFECTIOUS DISEASES.

Showing the number of NOTIFICATIONS of Infectious Diseases for the last ten years.

Year.	Smallpox.	Scarlet Fever.	Diphtheria.	Enteric Fever.	Chicken-Pox.	Continued Fever.	Erysipelas.	Puerpeual Fever.	Poliomyelitis.	Ophthalmia Neonatorum	Measles and Rubella.	Cerebro-Spinal Meningitis.	Tuberculosis.	Pneumonia.	Encephalitis Lethargica.	Malaria.
1915	...	254	109	17	...	...	95	10	1	27	...	..	684	...	...	...
1916	...	267	91	19	...	...	83	5	2	70	339	3	613	..	...	...
1917	...	196	69	9	...	...	57	5	...	50	3458	...	603	...	...	...
1918	..	396	54	5	...	...	63	3	...	38	1787	1	462	...	...	...
1919	...	463	86	15	...	...	68	5	...	72	1589	2	414	372	1	...
1920	...	505	80	6	...	...	84	12	...	116	378	2	349	420	3	...
1921	...	302	70	5	..	...	76	6	...	123	507	4	307	256	3	...
1922	...	431	46	3	...	...	56	15	5	91	403	1	310	484	3	...
1923	...	325	68	10	...	1	96	8	1	91	...	1	368	255	4	2
1924	...	227	66	5	488	...	66	1	2	115	...	4	326	620	37	...
Average	..	337	75	9	488	...	74	7	1	79	...	2	444	...	...	...

ZYMOTIC DISEASES.

It is customary to give the death-rate from what are called the Zymotic Diseases. The seven principal Zymotics are:—Smallpox, Whooping Cough, Measles, Diarrhœa, Diphtheria, Enteric Fever, and Scarlet Fever. In 1924 the death-rate from these amounted to only 1.16 per 1,000 of the population, compared with 1·46, the average of the previous ten years, being a decrease of over 20%.

SCARLET FEVER.

The following Table shows the number of cases of Scarlet Fever notified during the last ten years, the attack-rate, the fatality per cent. of cases, and the death-rate per 1,000 of the population.

For the first time in fifty years there have been NO DEATHS FROM SCARLET FEVER.

TABLE G.

Year.	No. of Cases Notified.	Attack-rate per 1000 of the population.	Fatality per cent. of cases.	Death-rate per 1000 of the population.
1915	254	1·7	1·2	0·02
1916	267	1·8	1·5	0·02
1917	196	1·4	1·5	0·02
1918	396	2·7	1·2	0·03
1919	463	3·1	3·2	0·10
1920	505	3·2	0·6	0·02
1921	302	1·8	1·6	0·03
1922	431	2·6	1.6	0·03
1923	325	2·0	1·2	0·02
1924	227	1·4*	Nil.	Nil.

* The attack-rate is 46·9% below the average of the previous ten years.

DIPHTHERIA.

The following shows the case-mortality per cent., and death-rate per 1,000 of the population, for the last ten years from Diphtheria (including Membranous Croup).

Year.	Case Mortality. per cent.	Death-rate per 1,000 of the Population.
1915	9·1 ,,	0·06
1916	12·1 ,,	0·07
1917	21·8 ,,	0·10
1918	7·4 ,,	0·03
1919	14·6 ,,	0·06
1920	16·2 ,,	0·08
1921	11·4 ,,	0·05
1922	10·9 ,,	0·03
1923	7·3 ,,	0·03
1924	12·1 ,,	0·05

There were 66 cases notified and 8 deaths.

TABLE H.

Table H gives the DEATHS from Infectious Diseases during the last 10 years.

Year.	Smallpox.	Measles.	Scarlet Fever.	Diphtheria, including Croup,	Whooping Cough.	Enteric Fever.	Tuberculosis.	Influenza.	Diarrhœal Diseases.
1915	...	118	3	10	52	3	321	25	128
1916	...	3	4	11	73	2	298	12	64
1917	...	136	3	14	12	2	383	8	91
1918	...	90	5	4	67	1	347	654	67
1919	...	57	12	9	17	2	233	221	82
1920	...	24	3	13	19	...	234	43	71
1921	...	83	5	8	52	1	233	29	116
1922	...	39	5	5	18	1	219	214	56
1923	...	75	4	5	68	2	235	9	78
1924	...	21	Nil.	8	14	1	235	118	126

BACTERIOLOGICAL REPORT.

The following is a Report of the Bacteriological examinations made by the Bacteriologist during the year 1924:—

DRINKING WATER.

CLASS.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Totals.	Percentages.	
						1924.	1923.
I. Containing no Bacillus Coli in 100 c.c.	32	35	8	30	105	49·5	44·5
II. B. Coli present in 100 c.c.	20	14	27	21	82	38·7	36·5
III. B. Coli present in 10 c.c.	3	3	16	1	23	10·8	15·0
IV. B. Coli present in 1 c.c.	1	0	1	0	2	1·0	4·0
Totals.....	56	52	52	52	212		

DRINKING WATER.

It is satisfactory to note considerable improvement in the bacillus coli content of the samples of drinking water which have been submitted from time to time to the Bacteriologist. There was again an improvement in Class I. (that containing no bacillus coli in 100 c.c., i.e., in about 4 fluid ounces), this class being 11% better than during the previous year. There were only two instances, out of 212 samples, where the bacillus was found in Class IV. (i.e., in 1 c.c. = 17 drops), the percentage being 1.0 compared with 4·0 in the previous year.

EXAMINATION OF MILK FOR TUBERCLE BACILLI.

	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Totals.
Positive (T. Bacilli present)	3	2	2	4	11
Negative (T. Bacilli not found)..	25	24	24	22	95
Totals	28	26	26	26	106

Thus Tubercle Bacilli (germs of Consumption) were found in 10·4 per cent. of the total number of samples examined during the year. In the previous year 11·1 per cent. of the total number of samples were Tuberculous.

ACTION TAKEN UNDER SECTION 33 OF THE SUNDERLAND CORPORATION ACT, 1907, PART V., MILK SUPPLY (TUBERCULOSIS).

Eleven samples of milk taken by the Inspectors in the Borough were found to contain tubercle bacilli on examination by the Bacteriologist:—

1. This sample was from a farm outside the Borough. Mr. Jack, M.R.C.V.S., examined the udders of 23 cows and found one which was, in his opinion, suspicious of being affected with Tuberculosis. The farmer gave an undertaking in writing not to send milk into the Borough from this cow.

2. From a farm outside the Borough. Mr. Dudgeon, M.R.C.V.S., examined the udders of 19 cows on two occasions but failed to detect any showing suspicious signs of being affected with Tuberculosis. The

farmer stated he was buying milk, about the time when the sample was taken, from other sources but could not say definitely whether he bought any milk on that particular day. A further sample was taken which proved to be negative.

3 & 4. From a farm outside the Borough. Mr. Dudgeon examined the udders of 19 cows, all of which were in the milking when the sample was taken, but failed to detect any showing suspicious signs of being affected with Tuberculosis. A second sample was taken which also contained tubercle bacilli. Mr. Dudgeon again examined the udders of 19 cows and on this occasion found one which was, in his opinion, suspicious of being affected with Tuberculosis. The farmer gave a written undertaking not to send any milk into the Borough from this cow.

5. From a farm outside the Borough. Mr. Dudgeon examined the udders of 32 cows and found one which had an induration of the left hind-quarter of the udder. The farmer attended a special meeting of the Health Committee and signed an undertaking not to supply within the Borough any milk from this cow.

6. A second sample was taken from the suspicious cow mentioned in No. 5, which on examination proved to contain tubercle bacilli.

7. The milk was sent in by rail to a large local Dairy Co. The M.O.H. in which the farm was situated, and also the County M.O.H., were communicated with.

8. The milk was sent in by rail to a large local Dairy Co., and the same action was taken as in No. 7.

9. Sent in by rail to a local Dairy Co. The County M.O.H. was communicated with.

10. From a farm outside the Borough. Mr. Dudgeon examined the udders of 15 cows and found one which was, in his opinion, suspicious of being affected with Tuberculosis. A written undertaking was obtained from the farmer not to send milk into the Borough from this cow.

11. From a farm outside the Borough. Mr. Dudgeon examined the udders of 42 cows and found two suspicious of being affected with Tuberculosis. The usual undertaking was obtained from the farmer.

EXAMINATION OF SWABS FOR DIPHTHERIA.

	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Totals.
Diphtheria Bacilli found	11	20	70	49	150
Diphtheria Bacilli not found ...	82	120	144	231	577
Totals	93	140	214	280	727

14·0 per cent. of the Scarlet Fever cases admitted to the Borough Sanatorium were "positive," i.e., were Diphtheria "carriers."

EXAMINATION OF BLOOD FROM PATIENTS SUSPECTED TO BE SUFFERING FROM ENTERIC FEVER (GRUBER-WIDAL REACTION).

	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Totals.
Positive	3	1	1	7	12
Negative	5	7	9	13	34
Totals	8	8	10	20	46

EXAMINATION OF SPUTUM IN SUSPECTED CONSUMPTION.

	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Totals.
Tubercle Bacilli present	59	45	62	65	231
Tubercle Bacilli not found	193	151	164	149	657
Totals	252	196	226	214	888

NOTIFICATION OF BIRTHS ACTS.

The Births registered during the year amounted to 4,285; of these 4,176 were notified to me under the provisions of the above Act, the number so notified being at the rate of 97.4 per cent.

NEW HOUSES.

The following is the Report of the work performed by the Inspector of Drains and Sanitary Fittings in New Houses during the year:—

Number of visits made	12,126
Number of Tests applied to Drains and Sanitary Fittings:—	
Water Tests	6,046
Smoke Tests	1,828
Total	7,874
Number of Certificates sent to the Borough Engineer	310
Number of cases where it was found necessary to order concrete foundations for drains	1,228
Approximate length of drains laid	38,810 feet.

THE HARRISON BUILDINGS.

The Twentieth Annual Report of the Harrison Buildings, made by the Superintendent, Mr. Robert Blaylock:—

On December 31st, 1924, there were 84 houses occupied, viz., 36 consisting of three rooms, and 48 consisting of two rooms each.

The rent collected during the year amounts to £1,495 19s. 7d., compared with £1,463 13s. 8d. in 1923, an increase of £32 5s. 11d.

The arrears of rent amounted to £88 8s. 3d., as against £121 9s. 11d. for 1923, a decrease of £33 1s. 8d.

The following Table shows the amount of rent collected for each year, and the arrears of rent:—

Year.	Rent Collected.			Arrears at end of each year		
	£	s.	d.	£	s.	d.
*1903	65	0	11		...	
1904	492	6	7	0	17	6
1905	709	4	3	3	9	3
1906	889	15	0	1	13	0
1907	867	16	3	8	14	8
1908	726	17	5	33	9	1
1909	403	5	0	20	6	10
1910	289	7	3	19	15	6
1911	253	17	4	10	1	10
1912	695	19	3	10	2	4
1913	906	2	5	11	12	10
1914	931	18	9	10	10	6
1915	947	12	5	8	17	10
1916	949	17	7	7	15	10
1917	969	16	3	6	3	0
1918	952	11	9	1	15	9
1919	983	14	7	3	1	4
1920	1126	14	0	2	16	11
1921	1320	3	11	46	4	11
1922	1424	4	6	96	2	0
1923	1463	13	8	121	9	11
1924	1495	19	7	88	8	3

*The buildings were opened in September, 1903.

MATERNITY AND CHILD WELFARE WORK.

COMMENTS BY DR. E. THORP ON THE INFANTS' CONSULTATIONS.

To the Medical Officer of Health.

Sir,

Infant Welfare work has proceeded satisfactorily during the year, the number of consultations continue to increase. The new centres are doing good work and have rapidly filled.

Bronchitis still remains too prevalent and every effort has been made to reduce its incidence by education of the mother and general advice on the subject.

Ear disease.—We are still without hospital facilities for this troublesome complaint, which leaves permanent defect. Miss Gill has

again helped us in allowing her district nurses to deal with many cases, but the absence of an aural department at one of the hospitals still remains a blot on a town of this size.

Dental caries is prevalent, and the old fallacy that the tooth should not be extracted till the swelling subsides is not yet exploded. Apart from such cases it is extremely difficult to get extractions or indeed any treatment performed for the pre-school child.

Rickets is still with us; there is little appreciable diminution of the disease, bad housing, ill-feeding, want of sufficient ventilation and sunlight being the chief causes. During the coming year a number of children will receive treatment by ultra violet rays and will undoubtedly benefit thereby. There have been good attendances at all centres, and mothers generally have taken advice and obtained necessary treatment for their babies through their own doctors or some of the institutions.

Nutrition.—There would appear to be a general improvement in the fitness of the babies and mothercraft generally.

The Ante-natal Centre has been exceedingly popular at Lambton Street, and it is now necessary to have two couches in use. Far too many mothers attend for any one medical officer to deal with, and but for the kindly help occasionally of general practitioners who drop in, some method of limiting the numbers, or further assistance, will be required. In the meantime the centre at the Maternity Home has been dropped. With the exception of points raised in the report, the year has certainly been one of progress.

(Signed) EUSTACE THORP,

Asst. Medical Officer of Health.

REPORT OF INSPECTOR OF MIDWIVES AND SUPERINTENDENT HEALTH VISITOR.

To the Medical Officer of Health.

Sir,

I beg to submit the following report of work done in the Maternity and Child Welfare Department during 1924.

Health Visiting. There has been no change in the staff during the year.

The Table on page 20 shows the extent of each Health Visitor's work. It will be seen that there has been a great amount of home visitation, in addition to the work of the Infant Welfare Centres. This home visitation is arduous and exhausting if well done, for the visit must leave the mother more able to deal with her own particular problem, and that the most important in her life: the care of herself and children, both in sickness and in health. Social, economic and sex problems also must be dealt with by the Health Visitor as they arise. That the mothers do desire "to have a word with the Nurse" is painfully evidenced by the great number who wait to see the Health Visitor after a clinic session, or find their way to the Health Office, or watch for her about the street. As each Health Visitor has approximately 2,000 children under five years in her district, it is easy to appreciate the amount of work entrusted to the staff.

Nourishment to Necessitous and Ailing Mothers and Children under two years. A vast amount of time and thought has again been put into this branch of our activities. Dried milk, fresh milk, oatmeal, rice, barley, cod liver oil and dinners have been granted to the amount of £2,193 11s. 0d. These grants are allowed to those whose income falls below the "dole" standard, or where there is a sick child or an expectant mother, and also for one month after the birth of a child if the unemployment benefit is the only source of income. Each case is investigated and recommended for this special grant by your Superintendent Health Visitor, and all cases are reconsidered at least once a month. There have been 3,518 dinners supplied to a weekly average of 26 expectant and nursing mothers. We consider this the best way of granting nourishment for they are compelled to have their dinners at the National Kitchen. In every case there has been a perceptible improvement in the health of the recipient.

We regret that diarrhœa has taken a big toll in infant life, and this in months when the weather could not be called hot, the infantile death-rate from this disease being over 19% of the total number of

infant deaths. The overcrowded condition of the homes, inadequate food storage, and the power to get condensed milks on credit during the week, we think, are the factors which have produced this state, for the Bridge, Sunderland, East and Central Wards are the districts mostly affected.

Still Births. These numbered 188. Inquiries were made into the probable cause of death in 104 cases, and records made; these have been notified by Midwives—those occurring in doctors' practices are not notified.

Infant Welfare Centres. The ever increasing attendance at the Infant Welfare Centres again calls for some re-organization. The Tyne Street and Dundas Street Centres get uncomfortably crowded. Near to Tyne Street a Mission Church in South Durham Street has added to its activities a Child Welfare Centre. This has over 100 members on its register, with an average weekly attendance of about 30. The whole of the staff, including the doctor, is voluntary. This, however, does not make any appreciable difference to the Tyne Street Centre. An extra room upstairs has been granted and this has somewhat relieved the congestion for the time being.

An effort is being made to deal again with the overcrowding at Dundas Street Centre, and a new Centre is recommended. This, with the increase of other branches of Child Welfare work, will necessitate an increase in staff, the present number being quite inadequate to attend the Infant Welfare Centres, Ante-Natal Clinics, write records, attend to the distribution of grants of nourishment, and do the home visitation which is probably the most valuable part of our work.

If an ailing child, when brought for consultation, is in such a condition as to necessitate medical treatment, it is referred to the general practitioner or to one of the public institutions in the Borough. In most cases, however, it is the mismanagement of the child that is the trouble: wrong diet and clothing, insufficient sleep, fresh air and light. Advice given and followed is usually all that is necessary. Thus home visitation is essential even for children attending the Infant Welfare Centres.

The Table on page 21 will give the summary of the work at the Centres and their numerical importance.

Ante-Natal Clinic. This Clinic is becoming more popular and much useful work has been done. The Midwives send their cases for examination, and a report, with recommendations as to the care of the expectant mothers, is sent to the Midwives by the Doctor. They greatly appreciate this help and consideration in their work and never fail to carry out the doctor's recommendations. The mothers, too, speak most gratefully of the help and kindness received from the Clinic Staff. Many patients are now coming on their own initiative. This work we know will still further increase when the community gets accustomed to the idea of the necessity of ante-natal care.

Midwives. There were 36 Midwives who notified their intention to practise in the Borough. Seven of these belong to the District Nursing Association, two are in residence at the Maternity Home, and three reside outside of the Borough. 25 Midwives possess the C.M.B. Certificate by examination. In December, Mrs. Smith ceased to practise owing to ill-health, and has since died.

Five warnings have been given by the Inspector to three Midwives for breach of the C.M.B. rules.

Under the 1918 Act making it compulsory for the Local Supervising Authority to pay the doctor's fee when called to the aid of a Midwife, 315 accounts, totalling £498 14s. 6d. were received. Of this amount £366 7s. 0d. was for district midwifery and £132 7s. 6d. was for the Maternity Home.

Payment of Midwifery Fees. There were no calls upon the Health Committee for necessitous cases, the Medical Aid Fund of the Midwives Association being able to meet the cost of all approved applications for assistance. During the year the Board of Guardians have granted orders enabling poor people to have the services of their own Midwife.

The Midwives' cases amounted to 73·6% of the total number of births.

There being no further need of a Municipal Midwife at the East end of the town, the office was terminated in December. Mrs. Wright,

however, decided to remain in the district and work as an independent Midwife. This change has proved to be justified by the greatly increased number of cases she has received.

The Inspector of Midwives paid 277 visits during the year. Sixty-eight of these were paid to Midwives for purposes of inspection and enquiry into their mode of practice. Sixty-six were paid to Midwives' cases. The other 143 visits were made for special reasons, such as child neglect, necessitous and sick cases, mentally defectives, and ante-natal work.

Ophthalmia Neonatorum. There were 115 cases notified, the rate per 1,000 births being 26·8. These figures include all cases, however slight. 94 of them were treated at the Eye Infirmary and 11 by private practitioners. The figures include all cases reported to you by the Midwives and those notified from the Child Welfare Centres by Dr. Thorp, and treated at the Eye Infirmary.

Puerperal Fever. There was only one case notified during the year. No case occurred in the practice of a Midwife.

The Table on page 22 gives the details and extent of each Midwife's practice.

Eye Infirmary. The Department, and the town in general, owe a big debt of gratitude to the staff of the Sunderland Eye Infirmary for their prompt attention and skill toward the many cases of opthalmia neonatorum that are sent to the Institution. But for the great privilege of that ever open door, there would be many cases of child blindness to record. Mothers are getting educated to the grave danger of discharging eyes, and also to the idea of sending the infant, however young, for treatment.

District Nursing Association. Again we must mention the never-failing help of Miss Gill and her staff in the cases sent for treatment from the Infant Welfare Centres. During the year 86 children have been referred to the Association for discharging ears, skin troubles and other minor ailments. This has entailed 1,013 visits by the staff. We desire to tender our grateful thanks for this valuable work rendered to the Child Welfare of this Borough.

Grindon Convalescent Home. This home of rest has also done good work for your department. Several poor mothers suffering from debility after confinement have been admitted at a very small fee. Every one has spoken in high terms of the benefit received and the kindness and sympathy shown to them. Every application we have made has been most sympathetically considered by the Secretary and Committee, and for this we thank them.

Voluntary Workers. Last, but not by any means least, we pay our tribute to the voluntary workers, who, all for love and nothing for reward, attend the Infant Welfare Centres week by week and render, ungrudgingly, their services in time, strength and often money for the Child Welfare of the town. There are some 50 of these ladies in attendance every week at your 11 Centres. They help with the clerical work in the weighing room, sell the dried milk, virol and garments, make and serve the tea, organize and provide the summer pic-nic and Christmas party. Indeed it is not possible to measure the amount of work that is done by them. The best feeling and co-operation exists between them and your staff, and the work has gone very smoothly during the year.

I am, Sir,

Your obedient servant,

MARY E. BARBER.

TABLE SHEWING THE VISITS, RE-VISITS, &c., MADE BY EACH HEALTH VISITOR.

District.	Total Visits.	First Visits.	Breast-Fed First Visits.	Re-Visits under One Year.	Re-Visits One to Five Years.	Notified No. of Births.	No. Deaths under One Year.	Infant Death rate for each District per 1,000 Births
1. Practically all East and parts of Sunderland and Central Wards	4771	510	510	838	3090	507	65	128
2. Large part of Sunderland, part of Park, small parts of Bishopwearmouth and East Wards.	3961	575	570	1530	1611	546	41	75
3. Large parts of Bridge and St. Michael's, half of Park, and most of Central Wards	3236	425	425	756	1647	447	48	107
4. Hendon, and large part of Bishopwearmouth Wards	3566	348	346	804	2221	370	30	81
5. Nearly all Thornhill Ward, and large parts of Bridge, West and St. Michael's Wards	3852	345	345	1551	1730	557	50	90
6. All Pallion, half of West and part of Thornhill Wards	4341	418	415	1010	2393	464	47	101
7. All Deptford, and about one-third of Bridge Wards	4351	371	371	886	2752	366	50	137
8. All Colliery and Roker Wards, and part of Monkwearmouth Ward	4256	394	391	1279	2337	407	46	113
9. All Monkwearmouth-Shore and large part of Monkwearmouth Ward	3755	480	476	938	2003	512	56	109
Whole Borough	36089	3866	3849	9592	19784	4176	433	

INFANT WELFARE CENTRES.

The following Table shows the numerical importance of each Centre with the average attendance for the year, the number of doctors consultations, etc.

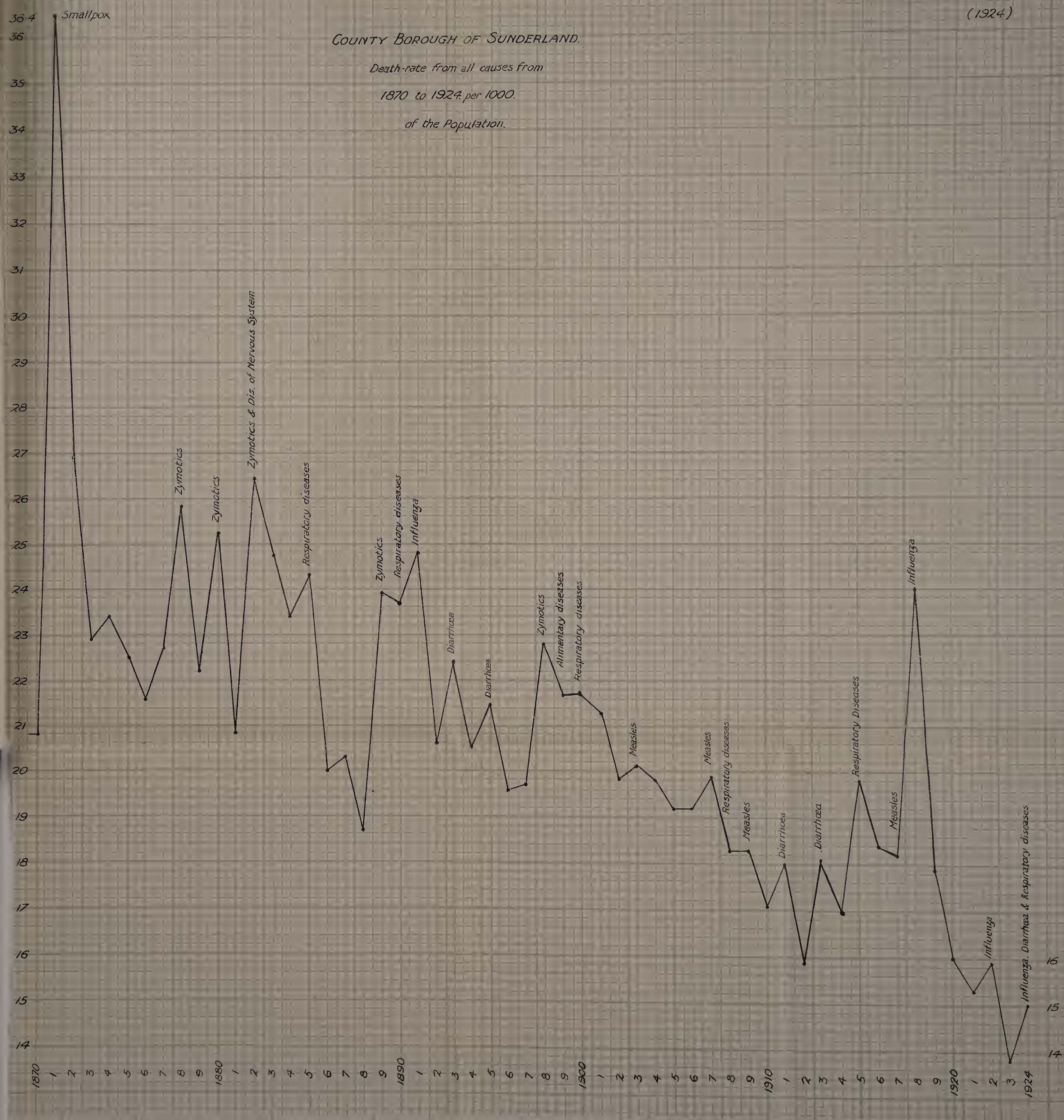
Centre.	No. on Books, Jan	No. on Books, Dec.	No. admitted during year.	Monthly Average on Books.	Weekly Average Attendance.	Weekly Attendance %	Doctor's Consultation.		No. of Sessions attended by Doctor.
							First Time.	Subsequ'tly.	
Jeffrey Hall	202	259	116	229·7	67·1	24·4	102	266	21
Dundas Street	332	534	303	424·4	119·2	28	231	437	22
Lambton Street (1)	303	256	131	270·4	56·7	20·9	101	397	20
Railway Row	154	160	81	157·5	59·9	38	66	233	21
Pottery Buildings ..	339	377	328	366	70·8	19·3	240	640	22
Tyne Street	254	249	223	280·1	75·8	27	190	310	21
Pallion	274	295	188	285·2	87·1	35·4	139	406	23
St. Mark's	156	209	114	186·1	52·6	28·2	124	438	22
Lambton Street (2)	142	177	168	110·4	39·7	35·9	108	218	16
Ravensworth St....	150	207	136	156·1	45·6	29·2	112	321	23
St. Barnabas*.. ...	144	335	239	235·5	62·2	26	185	471	23
Total	2450	3058	2027	2701·4	736·7		1598	4137	234

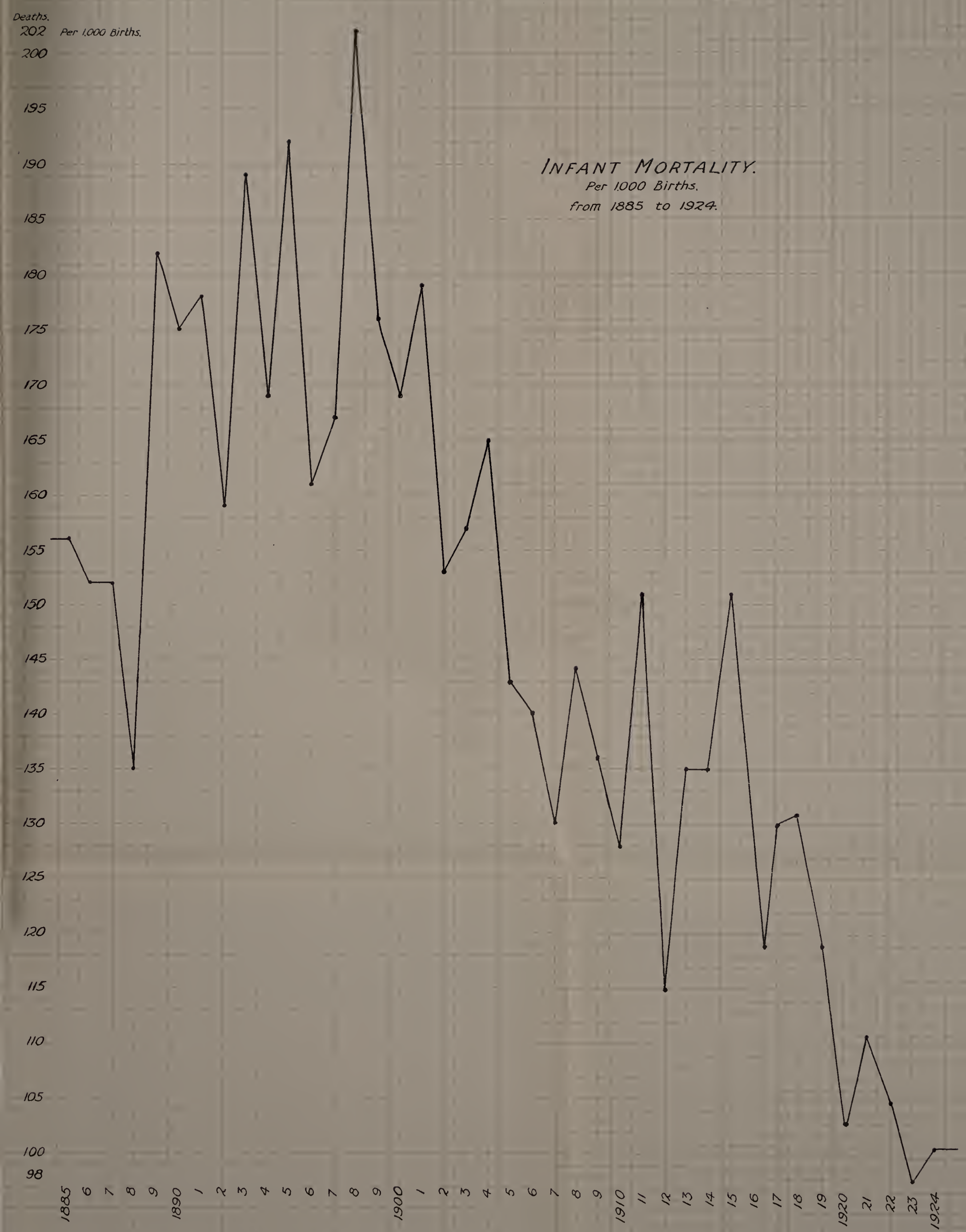
*Opened in February, 1924.

RECORDS OF SENDING FOR MEDICAL HELP, AND EXTENT OF EACH MIDWIFE'S PRACTICE.

	Delayed Labour.	Mal Pre s-entation.	Ophthalmia Neonatorum.	Inflamed Eyes.	Weakness of Child.	Weakness of Mother.	Premature Birth.	Still Births.	Lacerated Perinaeum.	Hæmorrhage.	Adherent Placenta.	Abortion.	Puerperal Sepsis.	Mis-carriage.	Rise of temperat're	Placenta Praevia.	Eclampsia.	Artificial Feeding.	Cæsarian Section.	Anæsthetic.	Death.	Ante natal	TOTAL.	Number of cases attended.
Mrs. Angus	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	11
„ Berry	14	3	...	1	2	...	...	1	1	...	...	...	...	1	1	...	...	1	...	...	...	...	25	55
„ Blakelock ..	8	...	...	8	...	1	1	1	1	...	...	...	...	...	1	...	...	...	...	...	...	...	21	68
„ Brown.....	5	...	...	...	...	2	3	1	...	...	1	...	...	1	...	...	...	...	...	...	...	...	13	42
„ Chambers ..	...	...	...	...	...	...	...	2	1	...	...	...	..	...	...	...	...	...	...	...	...	...	3	32
„ Cook	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	. .	...	...	...	...	5
„ Cromarty...	8	...	...	4	5	4	...	4	10	...	...	...	...	1	5	...	...	...	...	...	1	...	42	155
„ Dunlop.....	6	1	..	10	6	...	1	1	6	4	1	...	...	...	..	...	1	...	...	...	...	...	37	145
„ Fisher	10	2	1	...	5	1	2	5	1	1	...	...	...	...	...	...	1	...	...	...	...	...	29	194
„ Gray.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	6
„ Jackson ...	8	...	...	..	...	...	...	1	...	...	1	...	...	...	...	...	1	...	...	...	...	...	11	67
„ Kent	3	...	1	3	...	1	...	...	...	...	...	...	...	...	I	...	...	..	...	...	...	...	9	16
„ Lumsden...	6	5	..	...	...	1	...	...	2	1	2	...	...	...	...	...	...	...	...	...	...	...	17	179
„ Lillie	2	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	..	...	...	4	85
„ Mellor	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	3	13
„ Richmond .	3	...	...	3	2	...	...	1	1	...	...	...	...	...	...	..	...	...	...	...	...	. .	10	42
„ Rackstraw	3	1	2	...	4	...	1	2	2	...	1	...	...	...	...	...	...	...	...	...	...	...	16	342
„ Robson.....	8	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	8	56
„ Stewart ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	1
„ Sumner	9	...	...	4	2	2	...	1	...	...	..	...	...	1	...	...	...	...	...	...	...	...	19	114
„ Smith	...	...	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	20
„ Thompson .	9	3	...	2	3	3	...	9	...	2	1	...	...	...	...	...	...	...	...	...	...	...	32	162
„ Turner.....	6	6	1	4	3	5	2	6	17	6	...	3	...	...	5	...	1	4	...	...	1	2	72	209
„ Warlow ...	2	...	...	4	...	3	...	2	3	1	1	1	...	...	...	...	...	...	...	...	...	...	17	62
„ Watson ...	15	4	...	7	2	6	...	...	20	2	...	...	...	...	4	...	...	...	.	1	1	...	62	155
„ Waters	4	...	...	5	3	...	4	4	4	—	...	...	...	...	1	...	...	1	...	1	...	..	27	186
„ Wright	2	2	...	5	2	...	..	...	4	1	1	...	...	...	2	...	...	...	...	...	...	...	19	64
Victoria House...	28	7	...	10	10	6	...	9	36	8	3	...	...	...	7	...	...	...	...	...	3	...	127	379
Corporation Maternity Home.	25	5	...	...	8	10	2	...	12	8	1	..	...	2	1	6	3	...	2	7	...	5	97	290
Totals	185	39	7	71	58	47	16	51	122	35	13	4	...	6	28	6	7	6	2	9	6	7	725	3155

(1924)


COUNTY BOROUGH OF SUNDERLAND.
Death-rate from all causes from
1870 to 1924 per 1000.
of the Population.
36·4
Smallpox
Zymotics
Zymotics
Zymotics & Dis. of Nervous System
Respiratory diseases
Zymotics
Respiratory diseases
Influenza
Diarrhœa
Diarrhœa
Zymotics
Alimentary diseases
Respiratory diseases
Measles
Measles
Respiratory diseases
Measles
Diarrhœa
Diarrhœa
Respiratory Diseases
Measles
Influenza
Influenza
Influenza, Diarrhœa & Respiratory diseases
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
1870
1880
1890
1900
1910
1920
1924


INFANT MORTALITY.
Per 1,000 Births.
from 1885 to 1924.
Deaths.
202 Per 1,000 Births.
200
195
190
185
180
175
170
165
160
155
150
145
140
135
130
125
120
115
110
105
100
98
1885 6 7 8 9 1890 1 2 3 4 5 6 7 8 9 1900 1 2 3 4 5 6 7 8 9 1910 11 12 13 14 15 16 17 18 19 1920 21 22 23 1924

INFANTILE MORTALITY.

The following Table indicates the Infantile Mortality figure in Sunderland contrasted with that of England and Wales from 1885:—

	Infantile Mortality in Sunderland.	Infantile Mortality in England and Wales.
1885	156	138
1886	152	149
1887	152	145
1888	135	136
1889	182	144
1890	175	151
1891	178	149
1892	159	148
1893	189	159
1894	168	137
1895	191	161
1896	161	148
1897	168	156
1898	202	160
1899	175	163
1900	169	154
1901	179	151
1902	153	133
1903	159	132
1904	165	145
1905	143	126
1906	140	132
1907	130	115
1908	144	121
1909	136	109
1910	128	106
1911	151	130
1912	115	95
1913	135	109
1914	135	105
1915	151	110
1916	119	91
1917	130	97
1918	131	97
1919	119	89
1920	103	80
1921	111	83
1922	105	77
1923	97	69
1924	101	75

Infant Mortality per 1,000 births for England and Wales and several towns for the year 1924:—

England and Wales	75
105 Great Towns	80
157 Smaller Towns	71
London	69
South Shields	102
Gateshead	107
Newcastle-on-Tyne	89
Tynemouth	84
Darlington	92
Middlesbrough	134
SUNDERLAND	101

Death-Rate per 1,000 Births of Infants under 1 year of age from the Principal causes of Death for each Ward in the Borough during the year 1924.

Cause of Death.	Bishopwearmouth Ward.	Bridge Ward.	Central Ward.	Colliery Ward.	Deptford Ward.	East Ward.	Hendon Ward.	Monkwearmouth Ward.	Monkwearmouth Shore Ward.	Pallion Ward.	Park Ward.	Roker Ward.	Saint Michael's Ward.	Sunderland Ward.	Thornhill Ward.	West Ward.	Borough.
Atrophy, Debility, Marasmus, and Debility at Birth	11·4	8·2	12·9	17·8	...	11·2	16·1	9·0	32·2	14·3	3·8	5·9	6·6	11·2	22·5	12·3	12·4
Bronchitis	19·0	19·1	9·7	26·8	25·2	36·3	24·1	9·0	11·7	24·9	15·3	...	..	19·6	...	8·2	17·2
Pneumonia	7·6	8·2	9·7	8·9	3·6	8·4	4·0	18·0	5·8	3·6	11·5	17·7	19·9	5·6	...	4.1	8·0
Diarrhœal Diseases	7 6	51·8	16·1	17·8	21·5	19·5	4·0	18·0	11·7	10·7	7·6	23·7	39·7	27·9	11·2	16·4	19·5
Premature Birth	34·2	21·8	9·7	31·2	28·8	36·3	...	18·0	20·5	21·3	..	...	26·5	5·6	16·8	28·7	19·0
Convulsions	...	2·7	3·2	8·9	3·6	...	4·0	...	2·9	3·6	...	5·9	6·6	...	...	8·2	2·8
Measles	3·8	...	...	...	...	5·6	12·0	...	...	...	...	...	6·6	2·8	...	...	1·9
Whooping Cough	...	2·7	...	8·9	3·6	...	...	...	...	3·6	...	...	...	...	...	...	1·2
All Tuberculous Diseases	...	2·7	9·7	...	...	2·8	...	9·0	5·8	...	3·8	...	...	...	...	...	2·3
Congenital Defects	...	10·9	...	...	7·2	...	...	4·5	2·9	3·6	7·6	...	...	...	5·6	8·2	3·5
Simple Meningitis	...	...	...	...	...	...	...	...	...	...	3 8	5·9	...	...	...	...	0·5
Suffocation (overlaying)	...	2·7	3·2	...	...	...	...	...	2·9	...	...	5·9	...	...	...	...	0·9
Influenza	...	5·4	3·2	...	3·6	5·6	...	4·5	..	3·6	3·8	...	...	2·8	...	...	2·3
Atelectasis	...	5·4	...	4·5	7·2	...	...	4·5	...	3·6	...	5·9	...	...	...	...	1·6
Syphilis	...	2·7	6·4	...	7·2	2·8	...	...	...	...	...	..	...	2·8	...	...	1·6
Injury at Birth	...	...	...	...	3·6	...	...	...	...	...	...	...	...	...	...	...	0·2
Other Causes	7·6	10·9	...	8·9	...	2·8	12·0	9·0	5·8	7·1	7·6	17·7	6 6	2·8	5·6	8·2	6·6
Total	91·2	155·3	83·9	133·9	115·1	131·3	76·3	103·6	102·3	99·6	65·1	88·7	112·6	81·0	61·8	94·3	101·7

ANNUAL STATISTICS RELATING TO THE SUNDERLAND CORPORATION MATERNITY HOME FOR THE YEAR 1924.

(1) Total number of cases admitted.	290.
(2) Average duration of stay	14 days.
(3) No. of cases delivered by	
(a) Midwives	(a) 257.
(b) Doctors	(b) 33.
(4) No. of cases in which medical assistance was sought by the midwife with reasons for requiring assistance.	
(a) Ante-natal ...	(a) Patients' own wish ..... 2 Heart Diseases ..... 3 Hydatidiform Mole ..... 1 Epileptic Fits ..... 2 Pernicious Vomiting ..... 1 Cæsarian ..... 2 Total..... 11
(b) During labour ..	(b) Forceps 23. Placenta Præva 11. Eclampsia 3. Persistent Occipito Posterior 1. Complicated Breech 2. Transverse 1. Imparted Shoulders 1. Inevitable Abortion 1. Prolapse of Cord 2. Footling 1.—Total 46.
(c) After labour ...	(c) Rise of Temp. 1. Acute Abdominal Pain 1. Appendicitis 1. Adherent Placenta 1.—Total 4.
(d) For infant ...	(d) For Infant 8.
(5) No. of cases notified as Puerperal Sepsis with result of treatment in each case.	Nil.
(6) No. of cases in which temperature rose above 100·4 for 24 hours with rise of pulse rate.	4.
(7) No. of cases notified as Ophthalmic Neonatorum with result of treatment in each case.	Nil.
(8) No. of cases of Inflammation of the eyes, however slight.	Nil.
(9) No. of infants not entirely breast fed while in the Institution, with reasons why they were not breast fed.	Nil.
(10) No. of maternal deaths with causes.	Eclampsia 2. Heart Disease 1. Antepartum Hæmorrhage 1. Cæsarian 1.—Total 5.
(11) No. of foetal deaths (stillborn or within ten days of birth) and their causes—and the results of the post mortem examination if obtainable.	Lacerated Foetus 3. Stillborn (A.P.H.) 5. Stillborn (forceps), 5. Complicated Breech 1. Prematurity and Feebleness 8. Prolapse of Cord 1. Footling 1. Epileptic Mother 1.—Total 25.

REPORT ON V.D. CLINIC, 1924.

900 new cases were dealt with as compared with 832 in 1923.

The number of new cases of Syphilis was 102 less than in 1923, but the number of Gonorrhœa cases increased by 110. This does not indicate a larger incidence of the disease than previously, but it is a sign that the public is beginning to realise the importance of this complaint and to seek treatment for it. One may expect an increase in the number of this class of case till, roughly, a proportion of 2 cases of Gonorrhœa to 1 of Syphilis has been attained.

280 non-V.D. cases were examined compared with 230 in the previous year. This work is of great importance and the increasing numbers of doubtful cases that attend for diagnosis are a proof of the esteem in which the Clinic is held by the public and the medical profession. 9 women received ante-natal treatment for Syphilis, 1 for Syphilis and Gonorrhœa, and 11 for Gonorrhœa. Of the children of Syphilitic mothers, 8 were healthy, 1 required treatment, and 1 did not report. The child born of the mother treated for Syphilis and Gonorrhœa suffered neither from Syphilis nor from Opthalmia neonatorum. Of the 11 children of Gonorrhœal mothers, 8 were healthy, 1 had slight conjunctivitis, 2 failed to report.

The 12 children born in 1923 of mothers who had received ante-natal treatment all remained in good health during 1924. It is difficult to estimate the saving to the nation that must result from the prevention of congenital Syphilis and Opthalmia Neonatorum, and this work constitutes an important feature of the Sunderland clinic.

77 "contacts" were examined during the year. Of these, 21 were found to be suffering from Syphilis and 17 from Gonorrhœa.

The various public institutions are making more use of the clinic. Maternity and Child Welfare officials sent 34 cases to the Clinic, of whom 13 were found to be suffering from Syphilis, 5 from Gonorrhœa, and 16 were non-V.D. 1 case of Syphilis was sent by the Tuberculosis Medical Officer. 5 cases were sent by the Union Hospital, 1 being Syphilis, 2 being Gonorrhœa, and 2 non-V.D.

1 case of Gonorrhœa was sent by the Monkwearmouth Hospital, 12 cases were sent by the Eye Infirmary, 10 being Syphilis, 1 Gonorrhœa, and 1 non-V.D. 4 cases were sent from St. Agatha's Shelter, 1 being Syphilis and 3 Gonorrhœa.

Arrangements have been made to provide additional facilities for treatment by extending the hours of the irrigation department. It is necessary to have another session for men in order to avoid overcrowding and long waiting, and I recommend the appointment of a male clinical assistant to attend one session per week.

(Signed) NOEL F. ROWSTRON, M.D.

VENEREAL DISEASES.

Statement showing the services rendered at the Treatment Centre during the year ended December 31st, 1924, classified according to the areas in which the patients reside.

Name of County or County Borough, &c.	Sunderland.	Durham.	Newcastle-on-Tyne.	South Shields	Gateshead.	Total.
Number of persons from each area dealt with during the year at or in connection with the out-patient clinic *for the first time* and found to be suffering from :—						
Syphilis	143	83	1	2	...	229
Soft Chancre	10	6	...	...	...	16
Gonorrhœa.....	233	140	...	1	1	375
Conditions other than Venereal ...	191	88	...	1	...	280
Total	577	317	1	4	1	900
Total number of attendances at the out-patient clinic of all patients residing in each area	13797	6990	16	22	36	20861
Aggregate number of "in-patient days" of all patients residing in each area.....	872	430	...	...	...	1302
Number of doses of arsenobenzol compounds given to patients residing in each area in the :—						
1. Out-patient Clinic	1734	944	11	12	...	2701
2. In-patient Dept. .	3	2	...	...	...	5

BOROUGH & GRINDON SANATORIA.

ANNUAL REPORT FOR THE YEAR 1924.

Medical Superintendent.....Dr. H. Renney, M.O.H.

Visiting Physician.....Dr. E. Thorp, Assistant M.O.H.

During the year 851 patients were admitted. There were 47 deaths, equal to a death-rate of 5·5%.

Of the 47 deaths, 9 occurred within 24 hours of admission, being in a moribund condition.

The following Table gives a summary of the admissions, the number of deaths, and the death-rate per cent:—

Cause of Admission.	Number admitted	Number of deaths	Death-rate per cent of cases.
Tuberculosis of the Lungs	315	13	4·1
Other Forms of Tuberculosis	64	...	0·0
Scarlet Fever	174	2*	1·1
Diphtheria	49	7	14·3
Pneumonia	22	3	13·6
Enteritis	3	...	0·0
Diarrhœa	17	1	5·9
Enteric Fever	5	1	20·0
Scabies	4	...	0·0
Whooping Cough	6	...	0·0
Measles	21	...	0·0
Measles and Scarlet Fever	1	...	0·0
Erysipelas	2	...	0·0
Influenza and Pneumonia	72	12	16·6
Encephalitis Lethargica	26	3	12·0
Bronchitis	3	...	0·0
Varicella	7	1	14·3
Atrophy, Debility and Marasmus	15	2	13·3
Rickets	9	...	0·0
Septicaemia	3	...	0·0
Cerebro-Spinal Meningitis	4	2	50·0
Tonsilitis	6	...	0·0
Diagnosis unconfirmed	3	...	0·0
Observation	20	...	0·0
Total	851	47	5·5

*One case did not belong to the Borough; the other was admitted as "Scarlet," but afterwards diagnosed as Diphtheria.

BOROUGH & GRINDON SANATORIA.

Cases notified from the Borough admitted to the Borough Sanatorium and to Grindon respectively, during 1924, compared with those admitted in 1923:—

Cause of Admission.	1923.			1924.		
	Cases Notified.	Admitted to Hospital.		Cases Notified.	Admitted to Hospital.	
		Number.	Per cent of total cases notified.		Number.	Per cent of total cases notified.
Enteric Fever	10	6	60·0	5	5	100·0
Scarlet Fever	325	275	84·6	227	174	76·6
Scarlet Fever and Diphtheria	...	5	...	...	...	...
Diphtheria	68	41	60·3	66	49	74·2
Varicella	359	8	2·2	488	7	1·4
Cerebro-Spinal Meningitis	1	1	100·0	4	4	...
Pulmonary Tuberculosis	280	301*	...	238	315*	...
Other Tuberculosis	88	36	40·9	88	64	72·7
Measles	176	10	6·0	310	21	6·8
Pneumonia	255	22	8·6	620	22	3·5
Enteritis	...	26	...	...	3	...
Influenzal Pneumonia	...	1	...	...	72	...
Erysipelas	96	4	4·2	66	2	3·0
Diarrhœa	...	2	..	...	17	...
Dysentery	1	...	...	1	...	...
Ophthalmia Neonatorum	91	...	...	115	...	...
Puerperal Fever	8	...	...	1	...	...
Encephalitis Lethargica	4	3	75·0	37	26	70·3
Observation Cases	...	5	...	...	20	...
Suspected Variola	...	1	...	...	...	...
Pneumococcal Meningitis	...	1	...	...	...	...
Poliomyelitis	1	...	...	2	...	...
Septicæmia	...	1	...	...	3	...
Scabies	...	18	...	...	4	...
Whooping Cough	...	14	...	...	6	...
Measles and Scarlet Fever	...	1	...	...	1	...
Bronchitis	...	5	...	...	3	...
Atrophy, Debility and Marasmus	...	4	...	...	15	...
Rickets	...	4	...	...	9	...
Enteritis and Scabies	...	1	...	...	...	...
Impetigo	...	1	...	..	...	...
Physiological Amenorrhœa	...	2	...	...	...	...
Pediculi Capitis	...	1	...	...	..	...
Gastritis	...	2	...	...	...	..
Syphilis	...	1	...	...	...	...
Tonsilitis	...	2	...	...	6	...
Malaria	2	1	50·0	...	...	...
Birth at Hospital	...	1	...	..	...	...
Diagnosis unconfirmed	...	1	...	...	3	...
Contacts of Smallpox	...	40 ‡	...	...	...	...
Continued Fever	1	1†	100·0	...	...	...
Sycosis	...	1	...	..	...	...
Total	...	850	..	...	851	...

*Some of these were notified in previous year.
†Afterwards diagnosed as Pulmonary Tuberculosis.
‡The Smallpox occurred outside the Borough.

The following figures show the death-rate at the Borough Sanatorium for the past ten years:—

1914—	Patients admitted	744,	of whom	17	died, or	2·3%.
1915—	„	306,	„	7	„	2·3%.
1916—	„	330,	„	9	„	2·7%.
1917—	„	396,	„	11	„	2·8%.
1918—	„	694,	„	16	„	2·3%.
1919—	„	751,	„	42	„	5·6%.
1920—	„	711,	„	15	„	2·1%.
1921—	„	654,	„	29	„	4·4%.
1922—	„	890,	„	68	„	7·6%.
1923—	„	850,	„	31	„	3·6%.
1924—	„	851,	„	47	„	5·5%.

The high death-rate in the Borough Sanatorium for the year 1922 was due to Influenza and Influenzal Pneumonia, which caused 36 deaths; but for this the death-rate would have only been 4·1% of the cases admitted.

The death-rate for 1924 may be considered satisfactory, especially when deduction is made on account of 13 deaths due to Tuberculosis and 12 to Influenzal Pneumonia.

21 operations were done during the year, 9 requiring a general anæsthetic.

SMALLPOX AND VACCINATION.

Table showing the number of Certificates (of conscientious objection) for exemption from vaccination, and the percentage of the total births in the Union of Sunderland, from 1904 to 1924:—

Year.	Number of Exemptions.	Per cent. of Births.
1904	32	0·5
1905	53	0·8
1906	66	0·9
1907	175	2·5
1908	372	5·5
1909	510	8·2
1910	606	10·1
1911	688	11·6
1912	817	13·2
1913	851	14·0
1914	952	14·7
1915	833	14·5
1916	726	13·8
1917	646	14·5
1918	704	14·4
1919	799	14·8
1920	1,298	17·8
1921	1,247	20·0
1922	1,167	19·8
1923	574	14·2
1924	434	10·1

Smallpox was again, as in 1923, very prevalent; mostly, it is true, in a very mild form, and with a low mortality. We, fortunately, had no case in the Borough.

The compulsory notification of Chickenpox was continued during the whole of the year. Every case notified was visited and thus we were able to know that no case of possible Smallpox was missed. During the year 488 cases of Chickenpox were notified.

It is satisfactory to note that the "Conscientious" objections fell from 1,167 in 1922 to 574 in 1923, and to 434 in 1924. In a really well vaccinated and re-vaccinated community there need be no fear of Smallpox.

Table Showing the STATE OF VACCINATION in the entire Districts of the Sunderland Union for the Year ending December, 1924, and preceding Years.

(AS FURNISHED BY THE VACCINATION OFFICERS).

Year.	Births Registered.	Total Vaccinated.		Postponed by Medical Authority.	Died previous to Vaccination.	Removal to places unknown or other Unions.	Certificates of (Conscientious Objection) Exemption.
		Succ.	Insusceptible.				
1903	6743	5508	22	102	802	267	42
1904	6737	5551	28	93	834	189	32
1905	6784	5725	26	82	730	163	53
1906	6996	5831	97	97	767	195	66
1907	6913	5613	35	94	709	287	175
1908	6793	5339	39	104	680	239	372
1909	6171	4702	32	107	612	208	510
1910	6001	4505	17	94	595	183	606
1911	5924	4078	30	212	642	223	688
1912	6182	4363	34	129	562	277	817
1913	6081	4229	22	153	623	203	851
1914	6451	4357	25	166	704	247	952
1915	5739	3957	10	156	571	212	833
1916	5244	3750	10	133	494	131	726
1917	4464	3128	21	115	442	109	646
1918	4874	3266	22	144	639	99	704
1919	5373	3964	18	198	638	82	799
1920	7018	5461	20	195	727	79	1298
1921	6249	4276	17	114	503	55	1247
1922	5888	4662	14	250	626	51	1167
*1923	5322	7470	10	192	501	114	574
1924	5443	5014	34	176	554	87	434

*1202 Children were successfully Vaccinated whose Parents had previously obtained exemptions.

Annual Report of the Medical Officer of Health for the Year 1924 for the County Borough of Sunderland on the administration of the Factory and Workshops Act, 1901, in connection with Factories Workshops, Workplaces, and Homework.

1.—Inspection of Factories, Workshops, and Workplaces.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances

Premises. (1)	Number of Inspections (2)	Written Notices. (3)	Prosecutions. (4)
FACTORIES ..... (Including Factory Laundries).	295	3	...
WORKSHOPS ..... (Including Workshop Laundries).	1737	55	...
WORKPLACES ..... (Other than Outworkers' premises included in Part 3 of this Report).	71	20	...
Total.....	2103	78	...

2—Defects found in Factories, Workshops, & Workplaces.

Particulars. (1)	Number of Defects. Found. (2)	Remedied. (3)	Referred to H M. Inspector. (4)	Number of Prosecutions. (5)
*Nuisances under the Public Health Acts:**				
Want of cleanliness	50	49	...	...
Want of ventilation.....	4	4	...	...
Overcrowding.....	...	...	...	...
Want of drainage of floors.....	...	...	...	...
Other nuisances	85	85	...	...
Sanitary Accommodation. insufficient.....	4	3	...	...
Sanitary Accommodation. unsuitable or defective	30	30	...	...
Sanitary Accommodation. not separate for sexes.	8	7	...	...
Offences under the Factory and Workshop Acts:—				
Illegal occupation of underground bakehouses (s. 101)	1	1	...	...
Breach of special sanitary requirements for bakehouses (s.s. 97 to 100).....	68	68	...	...
Other Offences:—				
Excluding offences relating to outwork which are included in Part 3 of this Report.....	34	34	34	...
Total.....	284	281	34	...

* Including those specified in sections 2, 3, 7, and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

Nature of Work. *	Outworkers' Lists, Section 107.									Outwork in Unwholesome Premises, Section 108.			Outwork in Infected Premises, Sections 109, 110.		
	Lists received from Employers.						Notices served on Occupiers as to keeping or sending lists.	Prosecutions.							
	Sending twice in the year.			Sending once in the year.											
	Lists. †	Outworkers† Contractors	Outworkers† Workmen.	Lists.	Outworkers Contractors	Outworkers Workmen.		Failing to keep or permit inspection of lists.	Failing to send lists.	Instances.	Notices served.	Prosecutions.	Instances.	Orders made (S. 110.)	Prosecutions. (Sections 109. 110.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Wearing Apparel :—															
Making, etc.	76	51	60	19	4	3	122	...	...	...	...	..	...	...	...
Cleaning and Washing	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Household Linen	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lace, lace curtains and nets	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Curtains and furniture hangings	...	...	...	...	...	..	...	...	...	...	..	...	...	..	...
Furniture and Upholstery	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Electro-Plate	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
File Making	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
Brass and Brass articles	...	...	...	..	...	...	...	...	...	...		...	...	...	...
Fur pulling	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...
Cables and Chains	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Anchors and Grapnels	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
Cart Gear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Locks, Latches, and Keys	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Umbrellas, &c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Artificial Flowers	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
Nets, other than Wire Nets	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tents	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sacks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Racquet and Tennis Balls	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Paper, etc. boxes, paper bags	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brush Making	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pea Picking	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Feather Sorting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Carding, &c., of Buttons, &c.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12	(13)	(14)	(15)	(16)
Stuffed Toys	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Basket Making	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chocolates and Sweetmeats	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
Cosaques, Christmas crackers, Christmas stockings, &c.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Textile Weaving	...	..	...	...	...	...	...	...	..	...	...	...	...	...	...
Total	76	51	60	19	4	3	122	...	...	..	..	...	...	...	...

* If an occupier gives out work of more than one of the classes specified in column 1, and subdivides his list in such a way as to show the number of workers in each class of work, the list should be included among those in column 2 (or 5 as the case may be) against the principal class *only*, but the outworkers should be assigned in columns 3 and 4 (or 6 and 7) into their respective classes. A footnote should be added to show that this has been done.

† The figures required in columns 2, 3 and 4 are the *total* number of the lists received from those employers who comply strictly with the statutory duty of sending *two* lists each year and of the entries of names of outworkers in those lists. The entries in column 2 must necessarily be *even* numbers, as there will be two lists for each employer—in some previous returns odd numbers have been inserted. The figures in columns 3 and 4 will usually be (approximately) double of the number of individual outworkers whose names are given, since in the February and August lists of the same employer the same outworker's name will often be repeated.

4.—REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at the end of the year. (1)	No. (2)
Bakehouses	377
Blacksmiths	12
Boot and Shoe Makers and Repairers	111
Milliners and Dressmakers	70
Tailors	72
Other Workshops, including Factories, Domestic Workshops and Workplaces	599
Total number of Workshops on Register	1241

5.—OTHER MATTERS.

Class. (1)		No. (2)
Matters notified to H.M. Inspector of Factories—		
Failure to affix Abstract of the Factory & Workshop Acts (s. 133, 1901)		25
Action taken in matters referred by H M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Acts (s. 5, 1901) ..	Notified by H.M. Inspector...	26
	Reports (of action taken) sent to H.M. Inspector	24
Other		3
Underground Bakehouses (s. 101) :—		
Certificates granted during the year		...
In use at the end of the year		3

SUMMARY OF METEOROLOGICAL OBSERVATIONS FOR THE YEAR 1924.

Months.	Barometer.	Mean Temperature of the Air.	Mean of Maximum Temperature.	Mean of Minimum Temperature.	Mean Temperature 1 ft. Earth Thermom.	Mean Temperature 4 ft. Earth Thermom.	Mean Humidity.	No. of days rain fell.	Total Rainfall.	Direction of Wind. Number of Days.							
										N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
January	29·837	39·4	43·7	35·1	38·2	40·5	84·2	14	1·90	...	...	1	7	4	10	9	...
February	29·968	39·3	43·4	35·2	39·8	40·8	79·6	14	1·18	5	...	3	3	1	...	11	6
March	29·822	38·0	43·8	32·2	37·0	39·4	74·6	10	1·03	4	4	1	3	7	6	2	4
April	29·817	43·7	49·4	38·1	42·1	41·5	71·8	11	1·71	4	5	1	3	1	7	6	3
May	29·778	49·7	55·1	44·4	48·2	45·6	76·5	23	6·41	2	4	2	6	2	10	3	2
June	29·874	55·2	61·4	49·0	53·8	50·7	73·3	13	2·32	2	2	3	7	1	5	9	1
July	29·771	58·2	64·5	52·0	57·2	54·2	75·3	22	5·40	1	4	...	2	...	8	12	4
August	29·723	56·9	62·8	51·1	56·5	55·1	72·9	17	2·34	...	...	...	3	...	13	8	7
September	29·706	55·4	60·1	50·7	54·8	54·5	80·2	17	2·19	...	6	...	1	1	10	7	5
October	29·826	50·9	55·1	46·6	50·9	52·2	79·1	17	4·27	...	3	...	3	3	14	4	4
November	29·963	45·0	49·5	40·6	46·5	48·9	84·2	14	1·08	...	1	...	7	2	12	4	4
December	29·721	45·0	48·1	41·9	45·3	46·9	87·5	13	1·59	...	...	1	2	5	19	4	...
Averages	29·817	48·1	53·1	43·1	47·5	47·5	78·3	...	...	...	..	...	...	...	...	...	...
Totals	...	...	...	...	...	...	...	185	31·42	18	29	12	47	27	114	79	40

The average Rainfall for the last 50 years is 25·97 inches.
The rainfall in 1924 was 31·42 inches. or 5·45 inches above the average, and the wettest year on record with the exception of 1903 and 1919, when it was 33·63 and 31·54 respectively.

CAUSES OF DEATH FOR THE YEAR **1924.**

CAUSES OF DEATH.	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards	Total.
Smallpox — Vaccinated	....	....	....	....	....	....	....	....	....	....	....	....	....
Smallpox — Unvaccinated	....	....	....	....	....	....	....	....	....	....	....	....	....
Smallpox — No statement	....	....	....	....	....	....	....	....	....	....	....	....	....
Measles	8	5	8	....	....	....	....	....	....	....	....	....	21
Scarlet Fever	....	....	....	....	....	....	....	....	....	....	....	....	....
Typhus Fever	....	....	....	....	....	....	....	....	....	....	....	....	....
Epidemic Influenza	10	15	19	9	4	3	11	7	11	17	12	....	118
Whooping Cough	5	4	5	....	....	....	....	....	....	....	....	....	14
Diphtheria, Membranous Croup	....	3	2	3	....	....	....	....	....	....	....	....	8
Enteric Fever	....	....	....	....	1	....	....	....	....	....	....	....	1
Erysipelas	2	....	....	....	....	....	....	....	....	....	....	....	2
Chicken Pox	1	....	....	....	....	....	....	....	....	....	....	....	1
Diarrhœa, Dysentery	12	4	1	1	1	....	....	1	....	....	....	....	20
Epidemic or Zymotic Enteritis	71	25	8	1	....	1	....	....	....	....	....	....	106
Acute Anterior Poliomyelitis	....	....	....	1	....	....	....	....	....	....	....	....	1
Encephalitis Lethargica	....	....	....	1	....	....	....	....	1	....	....	....	2
Cerebro-Spinal Meningitis	1	1	2	....	....	....	....	....	....	....	....	....	4
Tetanus	....	....	....	1	2	....	....	....	....	....	....	....	3
Cholera	....	....	....	....	....	....	....	....	....	....	1	....	1
Syphilis	7	1	..	....	....	....	....	1	1	....	....	....	10
Gonnorrhœa	....	....	....	....	....	....	....	....	....	....	....	....	..
Malaria	....	....	....	....	....	....	1	....	....	....	....	....	1
Pyæmia, Septicæmia	3	....	....	2	....	1	1	1	1	....	1	....	10
Other Allied Diseases	....	....	....	....	....	....	....	....	....	....	....	....	....
Rheumatic Fever	....	....	....	5	2	....	6	2	1	1	....	....	17
TUBERCULOUS DISEASES.													
Tuberculosis of Brain or Meninges	3	2	7	6	1	1	....	....	....	....	....	....	20
Tuberculosis of Larynx	....	....	....	....	1	....	1	....	....	....	....	....	2
Tuberculosis of Lungs	....	....	5	17	37	41	32	22	13	1	....	....	168
Tuberculosis of Intestines, Tabes Mesenterica	3	3	3	2	2	1	2	....	....	....	....	....	16
General Tuberculosis, Tubercular Disease of Undefined Position	3	4	4	3	2	....	....	1	....	1	....	....	18
Other forms of Tuberculosis, Scrofula	1	1	1	2	5	1	....	....	....	....	....	....	11
Actinomycosis	....	....	....	....	....	....	....	....	....	....	....	....	....
Hydatid Disease	....	....	....	....	....	....	....	....	....	....	....	....	....
Scurvy	....	....	....	....	....	....	....	....	....	....	....	....	....
Other Diseases due to altered Food	....	....	....	....	....	....	....	....	....	....	....	....	....
Acute Alcoholism, Delirium Tremens	....	....	....	....	....	....	....	....	....	....	....	....	....
Chronic Alcoholism	....	....	....	....	....	....	....	....	....	....	....	....	....
Chronic Industrial Poisoning	....	....	....	....	....	....	....	....	....	....	....	....	....
Other Chronic Poisonings	....	....	....	....	....	....	....	....	....	....	....	....	....
Osteo-arthritis, Rheumatoid Arthritis	....	....	....	....	....	....	2	1	3	1	2	....	9
Gout	....	....	....	....	....	....	....	....	....	....	....	....	....

CAUSES OF DEATH.—Continued.

CAUSES OF DEATH.	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards.	Total.
Cancer	....	....	1	1	3	1	17	33	54	51	14	....	175
Diabetes Mellitus	....	....	....	2	1	2	1	2	1	6	2	....	17
Purpura Hæmorrhagica	....	....	....	....	....	....	....	1	....	....	....	....	1
Hæmophilia	1	....	....	....	....	....	....	....	....	....	....	....	1
Lymphadenoma, Hodgkin's Disease	....	....	....	....	....	....	....	....	....	....	....	....	....
Diseases of Lymphatic System and Ductless Glands	....	....	....	....	....	....	....	....	....	....	....	....	....
Premature Birth	81	....	....	....	....	....	....	....	....	....	....	....	81
Injury at Birth	1	....	....	....	....	....	....	....	....	....	....	....	1
Debility at Birth	27	....	....	....	....	....	....	....	....	....	....	....	27
Atelectasis	7	....	....	....	....	....	....	....	....	....	....	....	7
Congenital Defects	15	1	....	....	....	....	....	....	....	....	....	....	16
Want of Breast Milk	....	....	....	....	....	....	....	....	....	....	....	....	....
Atrophy, Debility, Marasmus	26	2	2	....	....	....	....	....	....	....	....	....	30
Dentition	2	....	....	....	....	....	....	....	....	....	....	....	2
Rickets	....	1	....	....	....	....	....	....	....	....	....	....	1
Old Age, Senile Decay	....	....	....	....	....	....	....	....	1	24	76	15	116
DISEASES OF THE NERVOUS SYSTEM.													
Convulsions	12	3	3	....	....	....	....	....	....	....	....	....	18
Meningitis	2	7	4	2	1	....	....	....	....	1	....	....	17
Encephalitis	....	....	....	....	....	....	....	....	....	....	....	....	....
Apoplexy	....	....	....	1	....	2	3	13	38	49	23	9	138
Softening of Brain	....	....	....	....	....	....	....	....	....	....	....	....	....
Hemiplegia, Brain Paralysis	....	....	....	....	....	....	....	....	3	3	5	1	12
General Paralysis of the Insane	....	....	....	....	....	....	8	2	....	....	....	....	10
Other Forms of Insanity	....	....	....	1	1	....	....	....	....	....	....	....	2
Chorea	....	....	....	....	....	....	....	....	....	....	....	....	....
Cerebral Tumour	....	....	....	1	....	1	3	....	....	....	....	....	5
Epilepsy	....	....	1	....	1	....	2	....	1	1	....	....	6
Laryngismus Stridulus	....	....	....	....	....	....	....	....	....	....	....	....	....
Locomotor Ataxy	....	....	....	....	....	....	....	1	....	1	....	....	2
Paraplegia, Diseases of Spinal Cord	....	....	....	....	1	....	1	4	3	2	3	....	14
Other and Ill-defined Diseases of Brain or Nervous System	....	....	....	....	....	....	1	....	1	2	....	....	4
DISEASES OF THE EYE AND EAR.													
Otitis, Otorrhœa	....	2	....	2	....	....	1	....	....	1	....	....	6
Mastoid Disease	....	....	....	1	2	....	....	....	....	....	....	....	3
Diseases of Nose, Epistaxis	....	....	....	....	....	....	....	....	....	....	....	....	....
Diseases of Eye, Ophthalmia	....	....	....	....	....	....	....	....	....	....	....	....	....
DISEASES OF THE CIRCULATORY SYSTEM.													
Endocarditis, Valvular Diseases of Heart	....	....	....	3	3	11	12	21	19	38	9	....	116
Pericarditis	....	....	....	....	....	....	....	1	....	....	....	....	1
Hypertrophy of Heart	....	....	....	....	....	....	....	....	....	....	....	....	....

CAUSES OF DEATH.—Continued.

CAUSES OF DEATH.	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards.	Total.
Angina Pectoris	....	....	....	....	....	....	....	1	2	4	....	....	7
Aneurism	....	....	....	....	....	1	....	....	1	....	....	....	2
Senile Gangrene	....	....	....	....	....	....	....	....	1	1	1	....	3
Anæmia, Leucocythæmia	2	....	....	1	2	1	2	2	1	1	....	....	12
Embolism, Thrombosis	....	....	....	....	....	1	2	3	3	1	3	....	13
Infective Endocarditis..	....	....	....	....	1	....	1	....	....	....	....	....	2
Phlebitis	....	....	....	....	....	....	....	....	....	....	....	....	....
Varicose Veins	....	....	....	....	....	....	....	....	....	....	....	....	....
Other and Ill-defined Diseases of Heart and Circulatory System	....	....	....	....	....	....	5	15	36	52	57	11	176
DISEASES OF THE RESPIRATORY SYSTEM.													
Laryngitis	1	....	....	....	1	....	....	....	....	1	....	....	3
Croup (simple)	....	....	....	....	....	....	....	....	....	....	....	....	....
Other Diseases of Larynx and Trachea ..	....	....	1	....	....	....	....	....	....	....	....	....	1
Acute Bronchitis	73	26	13	4	....	....	10	4	27	51	36	8	252
Chronic Bronchitis	....	....	....	....	1	1	1	2	26	25	16	1	73
Lobar Croupous Pneumonia	....	1	2	6	7	9	16	8	13	3	....	....	65
Lobular Broncho-Pneumonia..	29	29	17	8	6	5	2	3	10	4	1	....	114
Pneumonia, form not stated	5	4	2	1	2	5	3	3	7	7	2	....	41
Emphysema, Asthma	....	....	....	....	....	....	4	3	1	2	....	....	10
Pleurisy	....	....	....	....	2	....	....	2	3	2	2	....	11
Other and Ill-defined Diseases of the Respiratory System	....	....	1	....	1	1	....	....	....	....	....	....	3
DISEASES OF THE ALIMENTARY SYSTEM.													
Diseases of Mouth and Annexa	....	....	....	....	....	....	1	....	....	....	....	....	1
Diseases of Pharynx	....	....	....	....	....	....	....	....	....	....	....	....	....
Tonsilitis	....	....	....	....	....	....	....	....	....	....	1	....	1
Diseases of Œsophagus	....	....	....	....	....	....	....	....	1	....	....	....	1
Ulcer of Stomach and Duodenum	....	....	....	....	....	3	6	3	2	2	....	....	16
Gastritis	3	3	1	1	....	....	....	3	....	4	....	....	15
Other Diseases of Stomach	....	....	....	....	....	....	1	....	....	....	....	....	1
Enteritis	....	....	2	2	....	....	1	....	1	2	....	....	8
Appendicitis	....	....	....	4	4	....	1	3	....	....	....	....	12
Obstruction of Intestine	1	....	....	....	....	....	1	2	1	5	1	....	11
Other Diseases of Intestine	....	....	....	....	....	....	....	....	....	2	....	....	2
Cirrhosis of Liver	....	....	....	....	....	....	....	2	1	2	....	....	5
Other Diseases of Liver	....	....	....	....	....	1	....	2	1	2	....	....	6
Peritonitis..	....	....	....	....	....	....	....	....	....	....	....	....	....
Other and Ill-defined Diseases of Digestive System	....	....	....	....	....	....	....	2	1	....	....	....	3
URINARY SYSTEM.													
Acute Nephritis	....	....	....	....	2	1	1	8	5	4	2	....	23
Bright's Disease	....	....	....	1	....	1	2	7	8	14	2	1	36

CAUSES OF DEATH.—Continued.

CAUSES OF DEATH.	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards.	Total.
Calculus	....	....	....	....	....	....	....	....	....	....	....	....	....
Diseases of Bladder and Prostate	....	....	....	....	....	1	...	....	2	3	1	2	9
Other and Ill-defined Diseases of Urinary System	....	....	....	....	1	2	....	1	1	1	....	...	6
RE-PRODUCTIVE SYSTEM.													
Diseases of Testis and Penis	....	....	....	....	....	....	....	....	....	....	....	....	....
Diseases of Ovaries	....	....	....	....	....	1	1	....	....	....	....	....	2
Diseases of Uterus and Appendages	....	....	....	....	....	....	..	1	....	....	....	....	1
Diseases of Vagina and External Genital Organs	....	....	....	....	....	....	....	....	....	....	....	....	....
Diseases of Breast	....	....	....	....	....	....	....	1	....	....	....	....	1
DISEASES OF PREGNANCY AND CHILD BIRTH.													
Abortion, Miscarriage	....	....	....	....	....	1	4	..	....	....	....	....	5
Puerperal Mania	....	....	....	....	....	....	....	....	....	...	...	....	....
Puerperal Convulsions	....	....	....	....	2	1	1	....	....	....	....	....	4
Placenta Prævia, Flooding	....	....	....	....	....	2	1	....	....	....	....	....	3
Puerperal Thrombosis	....	....	....	....	....	1	....	....	....	....	....	....	1
Puerperal Fever	....	....	..	....	....	....	....	....	....	....	....	....	....
Other and Ill-defined Accidents and Diseases of Pregnancy and Child Birth	....	....	....	....	3	1	2	....	....	....	....	....	6
DISEASES OF THE BONES, &c.													
Arthritis, Ostitis, Periostitis	1	....	....	....	....	2	....	....	1	1	....	....	5
Other and Ill-defined Diseases of Osseous System	....	...	....	....	....	....	....	....	....	....	....	....	....
INTEGUMENTARY SYSTEM.													
Ulcer, Bedsore	....	....	...	....	....	....	....	....	1	....	....	....	1
Eczema	....	....	....	....	....	....	....	....	....	....	....	....	....
Pemphigus	....	....	....	....	....	....	....	....	....	....	....	...	....
Other and Ill-defined Diseases of Integumentary System	3	....	1	....	....	....	1	2	2	....	....	....	9
ACCIDENT OR NEGLIGENCE.													
In Mines and Quarries	....	....	....	1	1	....	....	....	....	....	....	....	2
In Vehicular Traffic	....	....	1	4	1	....	2	....	1	1	....	....	10
On Railways	....	....	....	...	....	....	....	....	1	....	....	....	1
On Ships, Boats and Docks (excluding Drowning)	....	....	....	...	..	....	1	3	....	1	....	....	5
In Building Operations	..	....	....	....	....	....	....	....	....	....	....	....	....
By Machinery	....	....	....	....	....	....	....	....	....	....	....	....	....
By Weapons and Implements	....	....	....	....	....	....	....	....	....	....	....	....	....
Burns and Scalds	1	2	5	2	....	....	1	....	1	....	2	....	14
Food Poisoning	....	....	...	1	....	....	....	....	....	....	....	....	1
Surgical Narcosis	....	....	...	....	....	....	....	....	....	....	....	....	....

CAUSES OF DEATH.—Continued.

CAUSES OF DEATH.	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards.	Totals
Effects of Electric Shock	....	....	....	....	....	....	....	....	....	....	....	....	...
Corrosion by Chemicals	....	....	....	....	....	....	....	....	....	....	....	....	...
Drowning..	....	....	....	1	1	...	1	1	1	....	....	.. .	5
Suffocation, Overlaid in Bed	4	....	....	....	....	....	....	....	....	....	....	....	4
Suffocation, otherwise	....	....	....	....	....	....	....	....	....	....	1	....	1
Falls, not specified	....	....	....	1	....	2	1	2	2	2	3	....	13
Weather Agencies	....	....	....	....	....	...	....	....	....	....	....	....	....
Otherwise, and not stated	....	....	1	....	....	....	1	1	....	....	1	....	4
Found drowned	....	....	....	1	....	2	....	2	1	....	....	....	6
HOMICIDES	2	....	1	1	....	....	....	....	....	....	....	....	4
SUICIDES—													
By Poison	....	....	....	....	1	1	....	....	....	....	....	....	2
By Asphyxia	....	....	....	....	....	....	....	....	....	....	....	....	....
By Hanging and Strangulation . ..	....	....	....	....	1	....	1	....	1	....	....	....	3
By Drowning	....	....	....	....	....	....	1	....	1	1	..	....	3
By Shooting	....	....	....	....	....	....	....	...	....	....	....	....	....
By Cut or Stab	....	...	....	....	....	....	....	1	2	1	....	....	4
By Precipitation from Elevated Places ..	....	....	....	....	....	....	....	....	....	1	....	....	1
By Crushing	....	....	....	....	....	....	....	....	....	....	....	...	..
By Other and Unspecified Methods ..	....	....	....	....	....	....	....	....	...	....	....	. ..	.
Sudden Death (Cause not Ascertained) ..	....	....	....	....	....	....	....	....	....	....	....	....	....
Other Ill-defined and not Specified Causes	4	2	....	1	....	....	...	1	1	....	....	....	9
TOTALS	433	151	124	109	111	112	184	208	323	403	280	48	2486

WHOLE BOROUGH.

INFANT MORTALITY DURING THE YEAR 1924.

Nett Deaths from stated causes in weeks and months under 1 Year of Age.

Cause of Death.	Under 1 week	1-2 weeks.	2-3 weeks.	3-4 weeks.	Total under 1 Month.	1-2 months.	2-3 months.	3-4 months.	4-5 months.	5-6 months.	6-7 months.	7-8 months.	8-9 months.	9-10 months.	10-11 months.	11-12 months.	Total Deaths under 1 year.
All causes { Certified	87	19	20	17	143	34	42	34	24	23	21	17	19	24	20	27	428
All causes { Uncertified	5	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	5
Influenza	...	...	...	1	1	...	1	1	1	2	...	2	...	2	...	...	10
Chicken-pox	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Measles	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	6	8
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping-Cough	...	...	...	...	...	...	...	...	...	...	1	1	1	2	...	...	5
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	2
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	3
Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	1	...	...	...	2	...	...	3
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	2	4
Meningitis (not Tuberculous)	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	2
Convulsions	3	1	...	...	4	1	1	...	1	...	...	...	1	1	2	1	12
Laryngitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Bronchitis	...	3	3	1	7	10	12	7	4	8	4	4	5	3	5	4	73
Pneumonia (all forms)	...	...	...	...	...	1	3	3	1	...	4	4	2	8	2	6	34
Diarrhœa	...	...	...	...	...	1	2	2	2	2	...	2	...	1	...	...	12
Enteritis	1	1	1	1	4	5	9	13	7	8	4	1	7	2	8	3	71
Gastritis	...	...	...	...	...	1	...	...	...	...	2	...	...	...	...	...	3
Syphilis	1	1	1	1	4	...	1	1	1	...	...	...	...	...	...	...	7
Rickets	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying	...	...	1	...	1	1	...	...	2	...	...	...	...	...	...	...	4
Injury at birth	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Atelectasis	6	1	...	...	7	...	...	...	...	...	...	...	...	...	...	...	7
Congenital Malformations	7	2	...	2	11	1	1	1	1	...	...	...	...	...	...	...	15
Premature Birth	54	5	9	4	72	4	2	1	2	...	...	...	...	...	...	...	81
Atrophy, Debility and Marasmus & Debility at Birth	13	4	4	5	26	8	9	4	1	...	2	...	...	1	1	1	53
Other Causes	6	1	1	2	10	1	...	1	1	2	1	1	2	...	...	2	21
TOTAL	92	19	20	17	148	34	42	34	24	23	21	17	19	24	20	27	433

Nett Births in the year { Legitimate ... 4144, Illegitimate ... 141 } 4285

Nett Deaths in the year { Legitimate Infants 403, Illegitimate Infants 30

Nett Deaths from all causes at all ages.....2486.

APPENDIX.

1.—GENERAL STATISTICS.

Area (acres)	3,357
Population (1924)	165,100
Number of inhabited houses (1921)	24,892
Number of families or separate occupiers (1921) ...	35,638
Rateable Value (including Government Property, £2,412)	£771,044

Sum represented by a Penny Rate:—

Borough Rate	£3,025
General District Rate	£2,968

2.—EXTRACTS FROM VITAL STATISTICS FOR THE YEAR.

Births:—	Total.	Males.	Females.
Legitimate	4,144	2,083	2,061
Illegitimate	141	72	69

Birth-rate, 25·9.

	Total	Males.	Females.
Deaths	2,486	1,335	1,151

Death-rate, 15·0.

Number of women dying in, or in consequence of, childbirth:—

From sepsis	Nil.
From other causes	19

Deaths of Infants under one year of age per 1,000 births:—

Legitimate, 94; Illegitimate, 7; Total	101
Deaths from Measles (all ages)	21
,, ,, Whooping Cough (all ages)	14
,, ,, Diarrhœa (under 2 years of age)	112

3.—CASES OF INFECTIOUS DISEASES NOTIFIED DURING THE YEAR 1924.

Notifiable Disease.	Number of Cases Notified.									
	At all ages.	At Ages—Years.								
		Under 1.	1 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.	Cases admitted to Borough & Grindon Sanatoria.	Total Deaths.
Scarlet Fever	227	2	42	147	31	3	2	...	174	...
Diphtheria	66	2	23	26	10	5	...	...	49	8
Erysipelas	66	2	...	4	7	20	30	3	2	2
Enteric Fever	5	...	...	1	2	2	...	...	5	1
Puerperal Fever	1	...	...	...	...	1	...	...	...	...
Cerebro-Spinal Meningitis	4	2	2	...	...	...	...	...	4	4
Encephalitis Lethargica	37	...	4	17	10	4	1	1	26	2
Acute Anterior Poliomyelitis	2	...	2	...	...	...	...	...	...	1
Dysentery	1	...	...	...	1	...	...	...	...	...
Measles	310	5	135	169	1	...	...	...	21	21
Pneumonia	620	35	195	131	71	113	55	20	94	220
Ophthalmia Neonatorum	115	115	...	...	...	...	...	...	...	...
Chickenpox	488	31	213	226	14	2	...	2	7	1
Pulmonary Tuberculosis—										
Males	124	2	9	19	33	33	26	2	190	91
Females	114	2	7	19	24	50	11	1	125	77
Non-Pulmonary Tuberculosis										
Males	41	5	11	9	9	5	2	...	32	27
Females	47	2	11	12	12	9	1	...	32	40
Totals	2268	205	654	780	225	247	128	29	761	495

Opthalmia Neonatorum.—Of the 115 cases notified, 11 were treated at home and 94 at the Eye Infirmary.

4.—CAUSES OF SICKNESS.

(See body of Report.)

5.—SUMMARY OF NURSING ARRANGEMENTS, HOSPITALS AND OTHER INSTITUTIONS AVAILABLE IN THE DISTRICT.

Professional Nursing in the Home.—There are no arrangements made by the Local Authority for providing nursing assistance in the home for either (a) General Nursing or (b) for Infectious Diseases. There is one Voluntary Association, Sunderland District Nursing Association, for general nursing assistance in the home.

Midwives.—There is one midwife, employed by the Local Authority, who is guaranteed a salary of £150 per annum. There are 36 midwives practising in the Borough.

Clinics.—The following Clinics are provided by the Council:—

Tuberculosis Dispensary, 1, Murton Street.

Maternity and Child Welfare Centres.

(See page 21.)

School Clinics:—

(1) Education Offices, John Street.

(2) Athenæum Street.

Hospitals.—The following Hospitals are provided by the Local Authority:—The Borough Sanatorium for General Infectious Diseases and Tuberculosis, Grindon Sanatorium for Tuberculosis, and the Sunderland Maternity Home.

The Council is one of the component authorities of the North-East Durham Joint Smallpox Hospital Board, which maintains the Whiteleas Hospital.

Other Hospitals in the Borough for use by the inhabitants are:—The Royal Infirmary, The Monkwearmouth and Southwick Hospital, The Children's Hospital, The Durham County and Sunderland Eye Infirmary, and Highfield (Poor Law) Hospital.

Institutional provision for Unmarried Mothers, Illegitimate Infants and Homeless Children.—There is no such provision made by the Local Authority.

Ambulance Facilities.—The Council provide a motor ambulance for cases of Infectious Diseases. The police motor ambulances are maintained for accident and non-infectious cases.

6.—LABORATORY WORK.

(See pages 8 to 11.)

7.—SANITARY ADMINISTRATION.

LIST OF ADOPTIVE ACTS, BYE-LAWS, ETC., IN FORCE IN THE DISTRICT.

Local Acts:—

(1) The Borough of Sunderland Act, 1885.

(2) The Sunderland Corporation Act, 1907.

Local Orders:—

(1) The Sunderland Order, 1900.

(2) Sunderland (Pharmacists and Druggists) Half-Holiday Order, 1913.

(3) Sunderland (Fishmongers' Shops) Closing Order, 1912.

(4) Sunderland (Pawnbrokers' Shops) Half-Holiday and Closing Order, 1915.

(5) Sunderland (Butchers' Shops) Half-Holiday and Closing Order, 1920.

(6) Sunderland (Pork Butchers' Shops) Half-Holiday Order, 1914.

(7) Sunderland (Fruiterers & Florists) Half-Holiday Order, 1919.

(8) Sunderland (Boot & Shoe Retailers) Half-Holiday and Closing Order, 1923.

General Adoptive Acts:—

(1) The Infectious Disease (Prevention) Act, 1890, adopted by the Council on 11th August, 1897, as to Sections 1, 2, 3, 4, 12, 13, 14, 16, 18, 19, 20, 21 and 24. Date of operation, 1st October, 1897.

(2) The Public Health Acts Amendment Act, 1890, adopted by the Council on 24th January, 1894, as to Parts II., III. and IV. Date of operation, 1st March, 1894.

The Public Health Acts Amendment Act, 1907:—

Sections 15, 16, 17, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31 and 33, comprised in Part II.

Sections 34, 35, 36, 37, 38, 45, 46, 47, 48, 49, 50 and 51, comprised in Part III.

Sections 55, 56, 60 and 65, comprised in Part IV.

Sections 72 and 75, comprised in Part V., Part VI. and Part X.

The above Acts and Orders are administered as fully as possible.

CONSERVANCY SYSTEM. CONVERSION TO WATER CARRIAGE.

Year 1924.

No. of Privies abolished.	No. of Water-closets substituted.	No. of Ash Receptacles substituted.
44	44	49

NUMBER OF CONVENIENCES REMAINING AT END OF 1924.

Houses with Waterclosets & movable Ashbins	23,244
,, ,, ,, Ashpits (fixed)	100
,, ,, Slop or Waste Water Closets	16
,, ,, Waterclosets & Privies and Ashpits	260
,, ,, Privies and Ashpits	1,005
	24,625

8.—PUBLIC HEALTH STAFF.

(See pages iii. and iv.)

9.—HOUSING.

Number of new houses erected during the year:—

(a) Total	235
(b) With State assistance under the Housing Acts 1919 or 1923:—	
(i.) By the Local Authority	Nil.*
(ii.) By other bodies or persons	217

1. Unfit dwelling-houses:—

Inspection—(1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts):—

Self-contained	8,029
Tenemented	19,876

(2) Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Regulations, 1910	1,662 (tenements)
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	8

* The Local Authority has built 16 houses OUTSIDE the Borough.

(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation 1,662

2. Remedy of Defects without service of formal Notices:—
Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers ... ... Nil.

3. Action under Statutory Powers:—
A:—Proceedings under Section 28 of the Housing, Town Planning, &c., Act, 1919:—

(1) Number of dwelling-houses in respect of which notices were served requiring repairs ... ... Nil.

(2) Number of dwelling-houses which were rendered fit:—

(a) By owners ... ... Nil.

(b) By Local Authority on default of owners ... ... Nil.

(3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close ... ... Nil.

B:—Proceedings under Public Health Acts:—

(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied 2,484

(2) Number of dwelling-houses in which defects were remedied:—

(a) By owners 2,234

(b) By Local Authority on default of owners 6

C:—Proceedings under Sections 17 and 18 of the Housing, Town Planning Act, 1909:—

(1) Number of representations made with a view to the making of Closing Orders ... 8

(2) Number of dwelling-houses in respect of which Closing Orders were made ... 8

(3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit Nil.

(4) Number of dwelling-houses in respect of which Demolition Orders were made ... 4

(5) Number of dwelling-houses demolished in pursuance of Demolition Orders ... 1

ANNUAL REPORT

OF THE

Chief Sanitary Inspector.

HEALTH OFFICE,

ATHENÆUM BUILDINGS,

FAWCETT STREET,

SUNDERLAND.

TO THE CHAIRMAN, VICE-CHAIRMAN, AND MEMBERS OF THE HEALTH COMMITTEE.

GENTLEMEN,

I have the honour of submitting to you my Thirtieth Annual Report of the work done by the Inspectorial staff of the Health Department for the year ended 31st December, 1924.

The number of visits made during the year by the District Inspectors, including appointments and advisory visits with owners, agents, or tradespeople, advising as to official requirements, etc., inspections and re-inspections of premises during progress of work, total 41,225. The Workshops and Shops Inspector made 9,580 inspections, the Food Inspector 6,645, and the Milk and Dairies Inspector 5,797—a total of 63,247. (See Tables 1, 5, 9, 15 & 17.)

The number of notices served for the abatement of nuisances under the various Public Health Acts, Local Acts, and Bye-laws was 4,852; of these 1,362 were Statutory and 3,490 Preliminary or Informal notices. In addition, a large number of nuisances was abated and improvements of a sanitary nature made on the verbal instruction or advice of the Inspectors. (See Table 2.)

The number of tests applied to drains was 855; of these, 743 were water tests, 94 smoke tests, and 18 chemical tests. Applications were received from 90 owners or occupiers to have the drains and sanitary fittings at their houses examined and tested, and in 23 cases

defects were found; reports, with recommendations of the work necessary to put the premises into good sanitary condition were sent in each case. On the Inspectors' suspicion of nuisance, 47 tests were made, 24 of which confirmed their suspicions.

The number of complaints received at the office was 510. Of these, 16 complaints were of overcrowding, 1 of which was unfounded; 396 were tenants' complaints of dampness, uncleanliness, choked drains, defective water-closets, and general dilapidations, 30 of which were prompted either by neighbours' quarrels or were found to have been abated prior to the Inspectors' visit; the remaining 98 being of a miscellaneous nature (24 unfounded).

OVERCROWDING.

Many cases of overcrowding have been notified by the Health Visitors and Tuberculosis Nurses, all of which have been investigated and, where possible, remedial measures suggested. But at the present time it is impossible to enforce compliance with the Bye-laws in respect of this matter owing to the lack of housing accommodation.

ALTERATIONS AND IMPROVEMENTS.

The insanitary privies and ashpits abolished during the past year number 44. These were replaced with washdown water-closets and approved ashbins.

179 broken or otherwise defective water-closet basins were replaced with new washdown pedestal basins; 629 feet of cast iron drains, 5,605 feet of stoneware drains have been laid, and 1,340 feet of new cast iron soil and ventilation pipe fixed. (Table 4.)

INFECTIOUS DISEASES.

The notifications of infectious disease included 227 Scarlet Fever, as against 325 in 1923; Enteric 5, as against 10 the previous year. These cases were visited by the District Inspectors for the purpose of inquiring as to the origin of the disease, arranging for the removal of the patient to the Sanatorium, and the disinfecting of the house, etc. (Table 1.)

The work performed by the Disinfector is given in Table 28.

HOUSING ACTS, 1890-1919.

Of the 5 Closing Orders outstanding last year, 1 property has been demolished. Demolition Orders were made respecting the others but not executed on account of the difficulty experienced by the tenants in finding accommodation elsewhere.

Eight Closing Orders have been made during the year. One has been determined, viz., 17, Back Hopper Street. These premises (stables) were being used as a house. They were vacated by the tenant and thus reverted to stables. With respect to the others, 1 Demolition Order has been served, the rest being still under consideration.

COMMON LODGING HOUSES.

These have been regularly inspected, and with one exception found to be clean and well conducted.

MEAT AND FOOD INSPECTION.

The Slaughter Houses, Butchers', Fish, and Fruit shops have been systematically inspected. (Table 5.)

I am again pleased to be able to report that the majority of the tradespeople engaged in the sale of food-stuffs seek the advice of the department when any doubt arises as to the fitness or otherwise of their goods for human consumption (occasionally letters of caution have to be sent) and voluntarily surrender any on the assurance of the Inspectors that such goods are unfit for human food. Reference to Table 6 will confirm this. It might be remarked here that one prosecution was taken against a butcher for allowing slaughter-house refuse to gain access to sewer, the case being dismissed on payment of £2 (poor box). (Table 25.)

DAIRIES AND MILK SHOPS.

The Inspector for this purpose has paid great attention to the Cowsheds, Dairies, and Milkshops (including Ice-cream stores) and has regularly inspected them with a view to seeing that the milk, etc., is properly stored and protected from contamination, and to see that the Regulations are observed. Under this heading 3 milk purveyors were summoned for purveying milk whilst unregistered, two being fined and one dismissed. (Table 25.)

Frequent visits are made by the Inspector to the railway stations to examine milk vessels both on arrival and when they are being returned as "empties," to ascertain that the churns are in good order, i.e., that the lids fit so as to prevent dirt, etc., gaining admission whilst containing milk, that they are otherwise suitable for containing milk, and that all empty churns are properly washed and scalded before they are returned to the farms or dairies. In this connection, 15

churns containing milk were found to have ill-fitting lids, defective fastenings, or were otherwise unsuitable; and 2 empty churns were not properly cleansed and had to be returned to the last user to be cleansed before being permitted to be sent to the farmers.

In each of these defaults a letter of caution was sent to the person responsible.

OFFENSIVE TRADES.

The premises where offensive trades are conducted number 144, which include approximately 113 fried fish shops. (Table 8.)

These premises are regularly inspected and every effort made to ensure that the particular business is so conducted as to prevent or mitigate, as far as is practicable, any nuisance arising from such business.

I am pleased to report that action has been taken by the Council for adopting the powers granted by Section 51 of the Public Health Acts Amendment Act, 1907, with regard to the establishment of offensive trades, and that new bye-laws will be framed for regulating these particular trades and businesses.

SHOPS ACTS, 1912-13.

The number of visits made under the above Acts (and the special closing orders in respect of various trades and businesses which do not come within the scope of the Shops Acts) to see that the various sections were being complied with, are given in Table 15.

The irregularities met with are shown in Table 18.

FACTORIES AND WORKSHOPS INSPECTION.

The number of visits of inspection to these premises was 2,122, details of which are given in Table 17.

The notices and reports from the Inspector of Factories of defects found by him were 45; and 52 communications were forwarded to him of defaults discovered by our Inspectors and remediable by his department. (Table 16.)

The number of factories, registered workshops, domestic workshops and workplaces is given in Tables 20, 21, 22, and 23.

ANALYSIS OF FOOD AND DRUGS.

The number of samples purchased and submitted to the Public Analyst was 367. Of these 128 were purchased in accordance with the Sale of Food and Drugs Acts; the remainder (239) being informally purchased.

Of the former, 98 were certified to be genuine and 232 of the latter. For details see Tables 26 and 27.

MILK AND CREAM REGULATIONS.

The samples taken specifically under these Regulations, and all samples of milk submitted to the Public Analyst under the Sale of Food and Drugs Acts, were also examined by the Analyst for the presence of preservatives. (Table 13.)

The Inspectors also purchased and delivered to the Bacteriologist for examination 106 samples of milk, 212 samples of water being collected and submitted for a like purpose.

It was found necessary to report to the Health Committee 167 persons who had failed to comply with notices served upon them for the abatement of nuisances; and the Committee gave authority to institute legal proceedings for non-compliance with the said notices.

These persons were then informed by letter and advised to comply with the Committee's requirements, with the result that 3 summonses only were issued, 1 of which was withdrawn on payment of the costs after the service of the summons and before the hearing thereof. Orders to abate the nuisances within 14 days were made by the Magistrates in the remaining two cases.

In conclusion, I beg to tender my grateful thanks to the Chairman and Members of the Committee for the continuance of their confidence and support; and to the staff for their loyal and hearty assistance in the discharge of the onerous duties which devolve upon them.

I am, Gentlemen,

Your obedient Servant,

JOHN PENNOCK,

Chief Sanitary Inspector.

TABLE 1.

SUMMARY OF VISITS MADE BY THE INSPECTORS.

DISTRICT INSPECTORS.	
HOUSE INSPECTIONS, &c. :—	
Infectious Disease Notifications	349
,, ,, "Contacts"	87
Houses (Self-contained)	8,029
,, (tenements)	19,876
Common Lodging Houses	159
Appointments and Advisory Visits	345
Inspections of Work in Progress	3,526
Information (Ownership, &c.)	950
Schools (Inspection of Conveniences, &c.)	145
Public Sanitary Conveniences (including Licensed Houses, places of Entertainment, &c.)	257
Vans, Tents, &c.	17
Stables, &c.	335
HOUSING ACTS, 1890 TO 1919 :—	
Tenements inspected and measured	1662
Rooms inspected and measured	5081
INSPECTOR OF WORKSHOPS AND SHOPS :—	
Factories and Workshops, &c. (see Table 17)	2122
Shops (see Table 15)	7,458
INSPECTOR OF MEAT AND OTHER FOOD (see Table 6)	6,645
INSPECTOR OF DAIRIES AND MILK (see Table 10)	5,797
Other Inspections	407
Total Inspections	63,247

TABLE 2.

SUMMARY OF NOTICES SERVED for the Abatement of Nuisances.

Nature of Notice.	Preliminary.		Statutory.		Totals
	Owner.	Occupier.	Owner.	Occupier.	
To Cleanse Renew, or Repair Drains...	341	...	196	...	537
„ Provide Additional Water-closets ...	...	...	...	...	...
„ Renew Defective Water-closet Basin	114	...	46	...	160
„ Cleanse Dirty Water-closet Basin ..	24	6	2	4	36
„ „ „ Floor, Seat, etc., of Water-closet	23	24	13	15	75
„ Repair Seat, Roof, Door of Water-closet	161	...	68	...	229
„ Renew or Repair Flushing Cistern...	144	...	42	1	187
„ „ „ „ Pipe	52	...	15	...	67
„ Provide Water Supply to Water closet	17	...	10	...	27
„ Abolish Waste-water closet	5	...	2	...	7
„ Repair or Renew Soil or Vent Pipe	...	...	...	...	...
„ Repair or Renew Bath Waste Pipe.	3	...	...	...	3
„ „ Lavatory Waste Pipe	4	...	1	..	5
„ „ Sink Waste Pipe	9	...	1	...	10
„ Abolish Privies and substitute Water-closets.....	...	...	...	...	...
„ Abolish Ashpit and Provide Dustbin	26	...	10	...	36
„ Repair or Renew Dustbin	468	...	120	...	588
„ Provide Additional Dustbin	11	...	7	...	18
„ Cleanse and Disinfect after Infectious Disease.....	...	287	...	...	287
„ Cleanse Dirty Rooms	...	23	2	18	43
„ „ „ Bedding, etc.....	...	15	...	13	28
„ Limewash Yard Walls and Conveniences	...	...	...	...	...
„ Repair Windows	210	...	88	...	298
„ „ Walls, Floors, Ceilings, etc...	413	...	170	...	583
„ Remedy Damp Walls	26	...	13	...	39
„ Provide Light and Ventilation to Staircase or Dangerous Stairs.....	32	...	17	...	49
„ Repair Roof	399	...	207	...	606
„ „ or Renew Spouts.....	400	...	174	...	574
„ Abate Overcrowding	21	5	14	2	42
„ Provide Domestic Water Supply ...	45	1	11	...	57
„ „ or Repair Yard Pavement...	74	...	32	...	106
„ Cleanse Yard Pavement	13	4	1	1	19
„ Remove Offensive Accumulations ...	30	3	21	...	54
„ „ Manure	2	2	3	2	9
„ Abate Nuisance from the keeping of Animals, etc.....	4	2	1	2	9
„ Provide or Repair Manure Pit	...	...	2	...	2
„ Repair or Cleanse Urinal.....	1	...	1	...	2
„ Abate other Nuisances.....	44	2	11	...	57
Provisional Orders Served.....	...	...	3	...	3
Totals.....	3116	374	1304	58	4852

TABLE 3.
DRAINS TESTED.

	Nature of Test.			Total.	Defective.
	Water.	Chemical.	Smoke.		
On Request	59	3	28	90	23
On Complaint	...	...	...	...	...
On Suspicion of Nuisance	29	13	5	47	24
On Account of Infectious Disease	...	1	1	2	...
Work in progress	519	1	46	566	33
Retested	136	...	14	150	7
Totals	743	18	94	855	87

TABLE 4.
REGISTER OF WORK PERFORMED.

Drains :—
- Cleansed or Repaired 472
- Renewed and Re-constructed.. 56
- Metal, 4 in. .....ft. 629
- Stoneware, 6 in. .....ft. 130
- ,, 4 in.....ft. 5475

Waterclosets :—
- Additional Provided 30
- Basins Renewed..... 179
- Cleansed 65
- Seats, Doors & Roof Repaired 158
- Flushing Cisterns Repaired... 155
- ,, Pipes Renewed 29
- Water Supply Provided 35

Soil or Vent Pipes :—
- Repaired 2
- New or Renewed (length) ft. 1340

Waste Pipes :—
- Repaired or Renewed Bath ... 48
- ,, ,, Lavatory 15
- ,, Sink..... 72

Urinals :—
- Cleansed or Repaired 10

Privies :—
- Abolished and W.C.'s substitutued 44
- Privy and Ashpit discontinued Dustbin provided..... 5

Ashpits :—
- Abolished, Dustbins provided. 44
- Additional ,, ,, 6

Dustbins Repaired or Renewed 503

Houses :—
- Dirty Rooms Bedding, etc., Cleansed 113
- Repairs to Floors, Walls, Ceilings..... 404
- ,, Windows 215
- ,, Roofs..... 510
- Dampness remedied 20
- Spouting Renewed or Repaired 427
- Staircases Repaired 45
- Overcrowding Abated 4
- Domestic Water Supply provided..... 36
- Limewashed (Tenements) :—
- Passage and Staircase Walls.. 4

Animals kept as a Nuisance... 10

Yard Pavement :—
- Cleansed 5
- Repaired 64
- Cemented or Paved 16

Manure, etc :—
- Removed 22
- Other Offensive Matter Removed 24
- Pit Provided or Repaired..... 2

TABLE 5.

INSPECTION OF PROVISIONS, ETC.

The following Work has been performed by the Inspector appointed for this purpose.

Visits of Inspection.	No. of Premises Inspected.
Meat Trade—	
Butchers' Shops (retail)	3629
„ „ (wholesale)	554
Slaughter Houses	490
Tripe Shops (retail)	41
Game, Poultry, and Rabbit Shops	29
Fish—	
Fish Shops (retail)	119
„ Frying	181
„ Curing	11
„ Hawkers' Barrows or Baskets	29
Fruit Trade—	
Fruit Shops (retail)	406
„ Warehouses	60
„ Preserving Works	7
„ Hawkers' Barrows or Baskets	39
„ Stalls (Market)	82
Provisions and Confectionery :—	
Wholesale Warehouses	30
Retail Stores	740
Offensive Trades—	
Tripe Preparing	12
Skin Preparing	17
Tallow, Oil and Grease Works	7
Hide and Skin Warehouses	21
Marine Stores	46
Other Visits	95
Total Inspections	6645

Note :—There are 68 Slaughter Houses (licensed) in the Borough which are in fair condition.

TABLE 6.

MEAT-CARCASES, PORTIONS, & ORGANS SEIZED & DESTROYED.

	Ox.	Bull.	Cow.	Heifer.	Calf.	Swine.	Sheep.	Lamb.	Rabbit.	Total	Weight in lbs.
Carcases seized in toto (Tubercular)	2	...	11	6	2	26	...	...	...	47	14240
Carcases seized partially (Tubercular)	3	1	14	4	...	42½	...	...	...	64½	3182½
Organs seized (Tubercular)	5	4	147	39	...	103	...	...	...	318	2479½
Summary of Meat (Tubercular) seized from all sources	30	5	172	49	2	171½	...	...	...	429½	19902
Carcases seized in toto (Other Diseases)	...	...	6	...	2	11	4	...	1	24	5614
Carcases seized partially (Other Diseases)	67	...	5	2	...	42	11	1	...	128	9451
Organs seized (Other Diseases)	60	10	270	27	...	1096	38	...	...	1501	9324
Summary of Meat (Other Diseases) seized from all Sources	127	10	281	29	2	1149	53	1	1	1653	24389
Meat seized from all sources: Tubercular...	30	5	172	49	2	171½	...	...	...	429½	19902
Other Diseases	127	10	281	29	2	1149	53	1	1	1653	24389
Total	157	15	453	78	4	1320½	53	1	1	2082½	44291

or 19 ton 15 cwt. 1 qr. 23 lbs.

OTHER FOODS SEIZED AND DESTROYED.

Provisions	2,445 lbs.
Confectionery	129 ,,
Fish	194 ,,
Fruit	8,634¼ ,,
Vegetables	45,952 ,,
	57,354¼ lbs.

SUMMARY OF MEAT AND OTHER FOODS SEIZED FROM ALL SOURCES.

	Tons.	Cwt.	Qrs.	Lbs.
Meat	19	15	1	23
Other Foods	25	12	—	10¼
Total.....	45	7	2	5¼

TABLE 6.—Continued.

Carcases (Tubercular) seized in toto, in Slaughter-Houses:—

Ox.	Cows.	Heifers.	Calves.	Pigs.
2	10	6	2	18

Carcases (Tubercular) seized partially, in Slaughter-Houses:—

Ox.	Bullocks.	Cows.	Heifers.	Pigs.
1	3	12	19	11

Organs (Tubercular) seized in Slaughter-Houses:—
225

Carcases (Tubercular) seized in toto, in Shops:—
Pigs.
8

Carcases (Tubercular) seized partially, in Shops:—

Ox.	Pigs.
1	29½

Organs (Tubercular) seized in Shops:—
65

Carcases (other Diseases) seized in toto, in Slaughter-Houses:—

Cows.	Calves.	Pigs.	Sheep.
5	2	10	3

Carcases (other Diseases) seized partially, in Slaughter-Houses:—

Oxen.	Cows.	Swine.
4	3	34

Organs (other Diseases) seized in Slaughter-Houses:—
1709

Carcases (other Diseases) seized in toto, in Shops:—
Nil.

Carcases (other Diseases) seized partially, in Shops:—

Oxen.	Cows.	Heifer.	Pigs.	Sheep.	Lamb.
35	3	1	2	8	1

Organs (other Diseases) seized in Shops:—
44

TABLE 7.

INFRINGEMENTS OF ACTS AND BYE-LAWS IN REGARD TO FOODSTUFFS.

UNSOUND FOOD (Cautions):—	
Meat Trade	30
Fruit Trade	22
Provision Trade	84
Fish Trade	8
Offensive Trade	6
BYE-LAWS:—	
Failure to Cleanse Drains	1
,, ,, Limewash Slaughter-House	19
,, ,, Cleanse Walls, Floors, &c., Slaughter-House	19
,, ,, Limewash Pounds	15
,, ,, Impound Animals	5
,, ,, Remove Offal	10
,, ,, ,, Hides and Skins	1
,, ,, ,, Offal and Refuse (Fish, Fruit, &c.)	35
,, ,, Provide Vessels for Offal	7
,, ,, ,, Light and Ventilation	...
	262

TABLE 8.

The Offensive Trades carried on in the Town are as follows:—

Fish Curing Houses	3
Fish Frying (approx.)	113
Skin Preparing Houses	2
Marine Stores	15
Oil and Grease Works	2
Skin Warehouses	3
Tallow Melting Works	1
Tripe Preparers	5
	144

TABLE 9.

REPORT OF DAIRIES AND MILK INSPECTOR.

Visits of Inspection.	No. of Inspections.	Defaults.	Communications.
Milk.			
Premises inspected for registration	204	...	...
Premises taken off register	52	...	...
Transfers	52	...	...
Milk and Dairy Produce Shops	32	...	...
Cowsheds	25	...	...
Milk Stores	173	...	...
Milk Retail Shops	2187	5	...
Milk Empty Churns	725	15	9
Milk Carts and Barrows	148	...	...
Ice Cream.			
Barrows and Utensils	282	4	...
Stores	387	1	...
Shops	150	...	...
Biscuit making and retailing	10	...	..
" " wholesale	49	...	...
Food and Drugs Acts.			
Milk Samples	114	...	...
Other Samples	253	...	..
Bacteriology.			
Milk Samples	106	...	...
Water Samples	212	...	..
Other Inspections	636	...	...
	5797	25	9

TABLE 10.

REGISTERED DAIRIES, COWSHEDS, AND MILKSHOPS.

Cowkeepers inside Borough	7
Cowsheds " "	11
Cows (approx.) " "	130
Dairymen inside Borough	48
Cowkeepers outside Borough	20
Dairymen " "	9
Milkshops	390

TABLE 11.

EXAMINATION OF MILK FOR PRESENCE OF DIRT

Sample Examined.	Result of Examination: Yielded moist sediment expressed in parts (by volume) per 100,000 of Milk.	Action taken.	Remarks.
No. 27	1·8		
„ 28	0·8		
„ 194	0·6		
„ 195	1·8		
„ 214	0·6		
„ 215	1·0		
„ 272	1 0		
„ 273	2·0		Milk yielding up to 2 parts of moist sediment per 100,000 parts of milk is considered CLEAN Milk.

TABLE 12.

MILK SAMPLES FOR TUBERCLE—SOURCES OF SUPPLY.

Local Farmers.	Local Dairymen, per		Durham.	Yorks.	West-moreland	Cum-ber-land.	Scot-land.	Total.
	Rail.	Farmers.						
29	64	13	50	34	11	10	1	106

TABLE 13.

ADMINSTRATION OF THE PUBLIC HEALTH (MILK AND CREAM) REGULATIONS FOR THE YEAR 1924

1 MILK; and CREAM not sold as preserved cream.

	No. of samples examined for the presence of a preservative.	No. of samples in which a preservative was reported to be present.
MILK	114	Nil.

2

(a) Instances in which samples of preserved cream have been submitted for analysis to ascertain if the statement on the label as to PRESERVATIVES was correct:

Correct statement 5

Incorrect statement 2

(b) DETERMINATION OF MILK FAT in cream sold as preserved cream:—

Above 35 per cent 7

Below do. 0

(c) DETERMINATION OF MILK FAT in cream not sold as perserved cream:—

Above 35 per cent. 2

Below do. 1

Instances where (apart from analysis) the requirements as to labelling or declaration of preserved cream in Article 5 (1) have not been observed:—

Nil.

Instances where the proviso in Article 5 (2) have not been observed:—

2

3

THICKENING SUBSTANCES: Any evidence of their addition to cream or preserved cream:—

Nil.

TABLE 14.

MILK AND DAIRIES AMENDMENT ACT, 1922.

Premises on Register beginning of 1924		249
„ removed from Register during the year		52
		197
Applications to Register as retail dealers of milk during year	264	255*
„ disapproved „ „ „ „	9	
Total on Register end of year		452

* Includes 204 for sale of milk in sealed bottles only.

TABLE 15.

SHOPS ACT,

GIVING THE NUMBER OF VISITS BY THE SHOPS INSPECTOR.

SHOPS ACT VISITS—	
Bakers and Pastry Cooks	41
Booksellers and Stationers	11
Boot and Shoe Dealers	631
Butchers	579
Chemists and Druggists	147
Clothiers	81
Confectioners	1171
Costumiers and Mantle Makers	104
Drapers	425
Fancy and Smallware Dealers	20
Fishmongers	498
Fruiterers	600
Furniture Dealers	315
Glass and China Dealers	23
Grocers and Provision Dealers	1176
Hairdressers and Barbers	366
Ironmongers and Hardware Dealers	25
Jewellers and Opticians	52
Licensed Victuallers	31
Milliners	230
Motor and Bicycle Dealers	25
Music and Musical Instrument Dealers	8
Newsagents	41
Pawnbrokers	88
Refreshment Houses	115
Saddlers and Leather Cutters	8
Second Hand Clothes	52
Tobacconists	27
Theatres, Picture Houses, &c.	184
Sundry	340
COMPLAINTS INVESTIGATED—	
Failing to Observe Closing Order	41
„ allow Assistants Meal Time	1
„ to provide seats for Assistants	1
Detaining Assistants beyond fixed hours	1
Total Inspections	7458

TABLE 16.

Factory and Workshop Act, 1901.

Shops Act, and Early Closing Order, 1912 to 1921.

Irregularities Found and Infringement of Acts Noted.

	Defaults Found.	Notices Served.		
		Owner.	Occupier.	Totals.
FACTORY AND WORKSHOP ACT—				
To Cleanse or Limewash Factory	2	2	...	2
,, ,, Workshop	16	1	1	2
,, ,, Workplace	3	...	...	...
,, ,, Bakehouses	68	4	15	19
,, ,, Restaurant Kitchens	5	...	..	...
,, ,, Sanitary Conveniences	24	...	6	6
To abate Nuisance from :—				
,, Gas Rings and Stoves	68	...	17	17
,, Defective Sanitary Convenience	30	10	...	10
,, ,, Drains	6	5	3	8
,, ,, Walls, Floors, Ceilings, Roofs, Spouts, etc.	11	3	...	3
,, Accumulation of Trade Refuse	5	...	2	2
To provide Light and Ventilation	4	2	...	2
,, Suitable and sufficient Sanitary Conveniences	4	3	...	3
,, Separate Sanitary Conveniences for Sexes	8	2	1	3
,, List of Outworkers	122	...	122	122
To Display Abstract, Factory and Workshop Act	28	...	...	...
SHOPS ACT—				
Failure to exhibit Notices regarding :—				
Shop Assistants' Weekly Half-holiday	45	...	3	3
Weekly Half-holiday	184	...	27	27
Failure to observe :—				
Shop Assistants' Weekly Half-holiday	4	...	4	4
Closing Orders	147	...	73	73
Meal Hours	1	..	1	1
Provisions re Seats for Female Shop Assistants	1	...	...	...
Defaults in Theatres, Cinemas, etc.	36	4	...	4
Totals	822	36	275	311
Reports to H.M. Factory Inspector	52	...	...	...
,, from ,, ,,	45	...	...	...
,, to Other Authorities	3	...	...	..
,, from ,,	...	...	...	...
Other Reports—To Borough Surveyor	2	...	...	...
To Chief Inspector	31	...	...	...
Totals	133	...	...	...

TABLE 17.

FACTORIES, SHOPS, AND WORKSHOPS.

The following work has been performed by the Inspector appointed for this purpose:—

Inspections and Enquiries.	No.
Factories	259
Workshops	699
Workplaces	44
Restaurant Kitchens	27
Domestic Workshops	160
Laundries	3
Outworkers, Home	56
,, Employers of	4
Bakehouses.—	
Wholesale	36
Retail	561
Domestic	273
Total Inspections	2122

TABLE 18.

SHOWING THE NUMBER AND NATURE OF IRREGULARITIES DEALT WITH UNDER THE SHOPS ACT, 1912.

Failure to Display Shop Assistants' Weekly Half-holiday List	45
,, ,, Closing Notice	184
,, ,, Notice as to Employment of Young Persons	—
,, Observe Interval for Meals	1
,, ,, Half-holiday	4
,, ,, Closing Order	147
,, Provide Seats for Shop Assistants	1
,, Display Correct Holiday Lists	3
	385

TABLE 19.

GIVING THE NUMBER OF SHOPS IN THE BOROUGH WHICH ARE SUBJECT TO THE SHOPS ACT, 1912.

Trade.	Number of Shops.
Auctioneers	7
Bakers and Pastry Cooks	117
Booksellers and Stationers	41
Boot and Shoe Dealers	129
Butchers	167
Chemists and Druggists	47
Coal Landsales	10
Confectioners	695
Corn and Flour Dealers	15
Costumier and Mantle Makers	9
Drapers	98
Dairies	28
Fancy and Smallwares Dealers	26
Fishmongers	36
Fish Fryers	122
Fruiterers and Florists	212
Furniture Dealers	69
Funeral Furnishers	13
Glass and China Dealers	17
Grocers and Provision Dealers	550
Hairdressers	89
Hosiers and Mercers	18
Herbalists	9
Ice Cream Dealers	24
Ironmongers and Hardware Dealers	39
Jewellers and Opticians	38
Ladies Blouse Dealers	4
Licensed Victuallers	365
Milliners	16
Motor Bicycle Dealers	22
Music and Musical Instrument Dealers	12
Newsagents	29
Outfitters (Clothing)	28
Painters and Decorators	8
Pawnbrokers	39
Photographers	13
Picture Framers	5
Pork Butchers	19
Plumbers	6
Refreshment Houses	33
Saddler and Leather Cutters	11
Second-hand Clothes Dealers	64
Ship Store Merchants	5
Tailors	30
Tinsmiths	5
Tobacconists	91
Tripe Preparers	16
Wall Paper Dealers	9
Wool Merchants	4
Sundry	156
	3615

TABLE 20.

FACTORY AND WORKSHOP ACTS.

SHOWING THE NUMBER OF REGISTERED FACTORIES IN THE BOROUGH.

Factories.	No.	Factories.	No.
Ale Bottlers	6	Model Makers	2
Bakers	16	Motor Car Builders	11
Bedstead Maker	1	Optician	1
Bicycle Makers	2	Organ Builders	2
Block and Mast Maker	1	Oxy-Electric Welding	1
Boat Builders	2	Paint Manufacturers	3
Bookbinders	2	Paper Bag Makers	1
Boot and Shoe Makers	27	Pattern Maker	1
Bottle Maker	1	Pickle and Sauce Makers	2
Brass Founders	8	Picture Frame Maker	1
Brass Washing	1	Potters	2
Brewers	7	Plumbers	5
Brush Maker	1	Preserve Makers	2
Cabinet Makers	17	Printers	26
Carriage Builders	3	Rope Manufacturers	6
Carver	1	River Wear Commission Wks.	1
Cattle Spice Maker	1	Saddler	1
Cement Block Maker	1	Sail and Flag Makers	3
Chemical Manufacturer	1	Sausage Makers	2
Compass Makers	4	Sculptor	1
Coppersmith	1	Shipbuilders and Repairers	13
Dry Docks	3	Shipbreaker	1
Dyer	1	Ship's Lamp Makers	2
Electrical Engineers	4	Steel Manufacturers	2
Electricity Works	5	Steering Wheel Maker	1
Engineers	31	Stocking Knitter	1
Electro Plating	1	Stone Dressers	2
File Maker	1	Sugar Boiling	2
Finings Manufacturer	1	Tailors	2
Firewood Factories	1	Tinsmiths	1
Galvanizers	2	Toy Makers	
Gas Manufacturers	2	Tent Makers	2
Glass Manufacturers	2	Test Works	1
Ironfounders	6	Timber Sawyers	8
Joiners	21	Whiting Manufacturer	1
Laundries	7	Window Blind Maker	1
Lead Glazing	1	Wood Turners	2
Millers	5	Winch and Reels	1
Mineral Water Manufacturers	6	Wood Chopper	1
Metal Broker	2		326

TABLE 21.

SHOWING THE NUMBER OF REGISTERED WORKSHOPS AND NATURE OF TRADE.

Trades.	No. of Each.
Autogenous Welders	1
Bakers and Pastry Cooks	120
Bicycle Makers	6
Billiard Table Maker	1
Blacksmiths	12
Blousemaker	1
Boat Builders	2
Botanical Brewers	1
Boot and Shoe Makers	46
Brush Makers	1
Cabinet Makers	9
Cartwrights	7
Chemical Manufacturer	1
Coach Builders	4
Coopers	3
Dentists	4
Disinfectant Maker	1
Drysalters	3
Electrical Engineers	10
Engravers	3
Florists	3
French Polishers	8
Garment Pressing	2
Hair Sorters	1
Harness Makers	4
Horse Shoers	9
Joiners	53
Laundries	2
Leather Cutters	1
Mattress Makers	4
Milliners and Dressmakers	67
Model Makers	2
Motor Repairers	13
Musical Instrument Repairers	2
Oxy-Acetylene Welder	1
Paper Bag Makers	2
Piano Repairers	3
Pickle and Sauce Makers	4
Picture Frame Makers	6
Pipe Makers	1
Plasterers	2
Plumbers	22
Rope Manufacturers	1
Sauce Maker	1
Sculptors	9
Sheet Metal Worker	1
Sign Writers	3
Stocking Knitters	1
Sugar Boilers	7
Tailors	62
Tinsmiths	4
Umbrella Makers	1
Upholsterers	8
Watchmakers	12
Waterproof Makers	1
Weighing Machine Makers	2
White Smith	1
Window Blind Maker	1
Wire Workers	2
Wood Carvers	3
	568

TABLE 22.

SHOWING THE NUMBER OF DOMESTIC WORKSHOPS.

Nature of Business.	Number of Each.
Bakers and Pastry Cooks	124
Basket Maker	1
Bicycle Makers	6
Boot and Shoe Repairers	38
Cabinet Makers	4
Cloggers	2
Dressmakers	1
French Polishers	3
Golf Club Maker	1
Gramophone Repairer	1
Joiners	2
Locksmith	1
Mattress Maker	1
Milliners	2
Picture Frame Maker	3
Pinafore Maker	1
Stocking Knitter	1
Tailors	8
Tinsmiths	2
Toymaker	1
Upholsterers	2
Watchmakers	1
	206

TABLE 23.

SHOWING THE NUMBER OF WORKPLACES.

Nature of Business.	Number of Each.
Ale Bottler	1
Builders' Merchants	1
Coal Depots	5
Garages	8
Haulage Contractors	5
Iron Merchants	1
Laundries	2
Metal Merchants	1
Mews	32
Oil Works	3
Photographers	10
Pottery Warehouse	1
Painters	2
Restaurant Kitchens	44
Slaters	3
Salt Packers	2
Ship Breakers	1
Ship Chandlers	2
Sign and Ticket Writers	2
Timber Merchant	1
Tram Sheds	2
Warehousemen	4
Wharfingers	2
Wholesale Confectioner	2
Waste Paper Sorter	1
Sundries	4
	142

TABLE 24.

SHOWING THE KIND OF CONVENIENCES IN USE AT THE FACTORIES, WORKSHOPS, AND WORKPLACES WITHIN THE BOROUGH.

Water Carriage—Ordinary Water-Closets	1,034
Trough Closets	28
Privies with Covered Ashpits	29
,, ,, ,, ,, and also Water-Closets	11
,, over Manure Pits	6
,, ,, River on Quay Side	5
Pan Closets	4
	1,117

TABLE 25

MAGISTERIAL PROCEEDINGS.

Particulars of Complaints.	No.	Result.
Adulterated Milk (See Table 26)	3	1 Fined £10 and costs. 1 Fined £2. 1 Dismissed.
Purveying Milk whilst unregistered	3	1 Dismissed ; 1 Fined £5 or 1 month imprisonment ; 1 Fined £2 or 1 month imprisonment.
Allowing Slaughter-house refuse to enter sewer contrary to Section 16 P.H.A. (Amendment) Act.....	1	No Conviction: £2 in poor box.
Vending fruit after 1 p.m. on Wednesdays contrary to the Sunderland (Fruiterers & Florists) Closing Order 1919	7	1 Fined £1. 1 Dismissed. 4 Fined 5s. 1 Fined 2/6.
Watercloset and yard drains out of repair	1	Withdrawn (paid costs).
Selling and being in possession of unsound confectionery viz: bon-bon-sweets..	1	Fined £2.
Selling Cigarettes after closing time contrary to Shops Act	1	No conviction: 10s. in poor box.
Selling Meat after 7 p.m. contrary to the Sunderland Butchers' Closing Order.....	1	Fined 20s.
Roof and Spouts out of repair...	1	Abatement Order (14 days) made.
Watercloset out of repair.....	1	Abatement Order (14 days) made.
	20	

TABLE 26

ANALYSIS OF FOOD AND DRUGS.

Articles Analysed.	No. Analysed.	Result of Analysis. Genuine.	Result of Analysis. Adulterated.	Sample Number	Extent of Adulteration.	Action taken.
Milk	114	95	19	37	Deficient in milk fat 6·6% ...	Letter of caution.
				150	do. do. 13·3%	do.
				151	do. do. 13·3%	do.
				152	do. do. 31·6% ... do. non-fatty solids 21 6%	Fined £10 & costs
				153	Deficient milk fat 8·3% ... do. non-fattysolids 5·0%	(Both samples from same vender)
				164	Deficient milk fat 6·6%	Letter of caution.
				165	do. do. 3 3%	do.
				196	do. do. 3·3%	do.
				198	do. do. 1·6%	do.
				235	do. do. 5·0%	do.
				273	do. do. 6·6% ... do.non-fatty solids 16·1%	Fined £2
				299	do. in milk fat 23·3% do.non-fatty solids 18·0%	Case dismissed.
				306	do. in milk fat 15·0% ..	Letter of caution.
				308	do. do. 11·6% ...	do.
				312	do. non-fatty solids 3 4%	do.
				328	do. in milk fat 5·0%	do.
				336	do. do. 1·6%	do.
				339	do. do. 1·6%	do.
				340	do. non-fatty solids 2·2%	do.
Cream (Preserved)...	2	1	1	212	Contained 0·49% boric acid...	do.
Rum	6	1	5	314	48·0° under proof	Spirits should be 35° under proof.
				316	48·0° do. do.	
				320	44·1° do. do.	
				321	49·4° do. do.	
				322	44·0° do. do.	
Whiskey	6	1	5	317	36·6° do. do.	Letters of caution from Town Clerk.
				318	37·6° do. do.	
				319	45·6° do. do.	
				324	51·5° do. do.	
				325	39·8° do. do.	

TABLE 27.

ANALYSIS OF FOOD AND DRUGS

INFORMAL SAMPLES.

Articles Analysed.	No. Analysed.	Result of Analysis. Genuine.	Result of Analysis. Adulterated.	Extent of Adulteration.	Action taken, and Remarks.
Ammoniated Tinct Quinine	1	1			
Apricots (Tinned)	2	2*		These samples contained ·7 and ·28 gr. of metallic tin per lb., respectively.	*Genuine subject to appended remarks.
Baking Powder	6	6			
Butter	18	18			
Blanc Mange Powder	1	1			
Bon Bon Sweets	1	1*		The cocoanut had become rancid, fat extracted from it containing 8·4% free acid.	See Table of proceedings.
Cocoa	5	5			
Castor Oil	4	4			
Camphorated Oil	3	3			
Citric Acid	2	2			
Cocoanut	2	2			
Condensed Milk	17	17			
Cream	3	1	2	These samples were preserved cream containing respectively ·20% and ·39% boric acid.	See formal samples of Preserved Cream taken from same sources.
Custard Powder	11	11			
Compound Mixture	1	1			
Cheshire Cheese	12	10	2	These two samples contained only 12·6% and 13·8% of fat, respectively.	No action deemed advisable.
Dried Milk	4	4			
Dripping	4	4			
Fruit Wine	7	7*		Two of these samples contained respectively ·17 and ·26 grains of Salycilic Acid per pint.	
Flowers of Sulphur	1	1			
Flour	12	12*		Ten of these samples gave indication of having been bleached by nitrates of nitrogen the amount of nitrogen oxides present expressed as sodium nitrate varying from 0·25 to 2·3 parts per 1,000,000.	These are quite usual figures for flours which have been so bleached.
Gregory Powder	3	3			
Ground Rice	2	2			
Jam	20	20			
Lard	26	26			
Lobster Paste	1	1			
Licorice Powder	4	4			

TABLE 27 (Continued.)

Articles Analysed.	No. Analysed.	Result of Analysis.		Extent of Adulteration.	Action taken, and Remarks.
		Genuine.	Adulterated.		
Mustard	3	3			
Margarine	1	1*		This sample contained ·3% Boric Acid.	
Marmalade	4	4			
Malted Milk Tablets	1	1			
Mincemeat	3	3			
Oatmeal	7	7			
Pepper	9	9			
Pearl Barley	4	4			
Preserved Cream	5	4	1	This sample contained .45% Boric Acid.	Letter of Caution.
Peaches (tinned)	1	1*		Contained 1·4 gr. metallic tin per lb.	
Pears (tinned)	1	1*		Contained ·84 gr. metallic tin per lb.	
Rum	4	2	2	These samples were respectively 50·2° and 47·2° under proof	Correct standard is 35° u.p. See formal samples 321, 322.
Rice	2	2			
Self-Raising Flour	8	8			
Syrup of Rhubarb	1	1			
Shredded Suet	1	1			
Syrup, Table	1	1			
Semolina	1	1			
Spinach	1	1*		This sample cont'd 1 00 gr. metallic tin per lb. Had been greened with copper compounds equivalent to 0·21 gr. metallic copper per lb.	
Tartaric Acid	5	5			
Tongue	1	1			
Whiskey	2	2			
Totals	239	232	7		

TABLE 28.

WORK OF DISINFECTOR.

Articles.	Disinfected.	Destroyed.	Premises Disinfected.	No.
Beds	282	3	Sanitary Conveniences	9
Mattresses	174	6	Rooms of Dwelling Houses	915
Blankets	448	...	School Classrooms	118
Pillows	575	3		
Quilts	363	...		
Sheets	265	1		
Bolsters	207	...		
Sundries	632	...		
	2946	13		1042

Calls for Bedding only	130
Visits to ascertain readiness for disinfection	145
Visits re-Infectious Diseases	7
Number of patients removed to Borough and Grindon Sanatoria	425
,, ,, ,, Otherwise	93
,, Library Books Disinfected	146